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24 July 2014

Carmen Santos  
PCB Coordinator  
Waste Management Division  
U.S. Environmental Protection Agency, Region IX  
75 Hawthorne Street  
San Francisco, CA 94105

Subject: Application for Risk-Based Cleanup of PCB-impacted Site  
Sanitary District No. 1 of Marin County – Former Wastewater Treatment Plant  
2000 Larkspur Circle, Larkspur, CA  
K/J 1365028\*00

Dear Ms. Santos:

Kennedy/Jenks Consultants, Inc., on behalf of the Sanitary District No. 1 of Marin County (the District), provides the attached risk-based cleanup application for the Former Wastewater Treatment Plant Site at 2000 Larkspur Circle, Larkspur, California (Site), per the request made by the United States Environmental Protection Agency - Region IX ("Region 9") during our 19 December 2013 meeting. The risk-based cleanup application was prepared in accordance with Code of Federal Regulations Title 40, Chapter 1, Subchapter R, Part 761, Subpart D, Section 761.61 (40 CFR 761.61(c)) and provides the information requested by Region 9 during the December 2013 meeting and subsequent electronic mail transmittals.

In 2008, the District was working with the Department of Toxic Substances Control (DTSC), to obtain a No Further Action determination for the Site so that a private developer could purchase the Site and develop condominiums and a hotel. The DTSC appeared to have no objection to a No Further Action determination but requested that the District engage Region 9 to ensure its compliance. In August 2010, the District provided Region 9 with its Risk-Based Cleanup and Disposal Application. The application demonstrated that the Site had met the cleanup level for low occupancy areas as established by 40 CFR 761. The District has not received a No Further Action determination from Region 9 or any response to the 2010 Risk-Based Cleanup and Disposal Application. Therefore, in December 2013, the District re-engaged Region 9 to complete the process.

The Site is a former wastewater treatment plant owned and operated by the District. The District raised the Site structures in 1998-1999; with subsequent testing showing that the demolished concrete structures were coated with paint containing PCBs. Most, but not all, of the soil

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containing PCB-laden concrete particles has been removed from the Site. A thorough characterization of the subsurface environment was conducted by the District and their environmental consultants between 2006 and 2008. The results of the investigations demonstrate that remaining contaminants poses no significant risk to public health or the environment.

The Site is currently vacant and the District has not determined its future use. However, in the interim, the District intends to use the site as overflow parking for the Golden Gate Bridge and Highway Transportation District's Larkspur Ferry Terminal, a critical regional transportation component. As such, the interim use of the Site complies with the "low occupancy" definition under 40 CFR 761. When the District determines the future use for the Site, we will notify Region 9 and work with the appropriate agencies, implementing the appropriate measures to ensure compliance with applicable laws and regulations.

The District requests that Region 9 issue a No Further Action determination for the proposed interim use of the Site, as described in the attached Risk-Based Cleanup and Disposal Application. Please provide your determination by August 22, 2014. If you require additional information for your assessment, please contact me, or Mr. Greg Norby – General Manager of Sanitary District No. 1 of Marin County. Your prompt attention to this matter is appreciated.

Respectfully,

KENNEDY/JENKS CONSULTANTS



Todd Miller, CHG  
Principal Geologist

Enclosure – Application for Risk-Based Cleanup of PCB-impacted Site

- c: Steven Arman, United States Environmental Protection Agency
- Alvin Greenberg, Risk Science Associates
- Jolie Houston, Berliner•Cohen
- Randell Ishii, Sanitary District No. 1 of Marin County
- Ivan Lieben, United States Environmental Protection Agency
- Greg Norby, Sanitary District No. 1 of Marin County
- Christian Picone, Berliner•Cohen
- Patrick Wilson, United States Environmental Protection Agency

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To: Greg Norby – Ross Valley Sanitary District

From: Todd Miller – Kennedy/Jenks Consultants  
Dr. Alvin Greenberg – Risk Science Associates

Subject: Application for Risk-Based Cleanup of PCB-impacted Site  
2000 Larkspur Landing Circle, Larkspur, California  
K/J 1365028\*00

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## 1. Introduction

The Ross Valley Sanitary District (RVSD) owned and operated the Larkspur Wastewater Treatment Plant (LWTP), located at 2000 Larkspur Landing Circle in Larkspur, California (Figure 1), between 1948 and 1985. The LWTP facility was no longer needed for local wastewater treatment, following completion of the much larger, centralized wastewater treatment plant by the Central Marin Sanitation Agency in 1985. The RVSD began planning for removal of the treatment plant and redevelopment of the approximately 10.5 acre parcel in 1995. The proposed redevelopment included a multi-family residential development (townhomes and condominiums), a hotel and associated parking areas, and an administration/operations headquarters building for the RVSD. The grading plan for the overall development included filling in excavations created during building demolition, and importing soils to complete the site grading. In 1998 and 1999, the RVSD demolished the on-site concrete structures and associated piping. The crushed concrete material was mixed with on-site soils and used as a non-expansive engineered fill to backfill the excavations left by the demolition process. Subsequent to backfilling with the engineered fill, imported fill was brought onto the site and placed over the crushed concrete material. Testing of this imported fill after grading revealed low concentrations of TPH as diesel fuel (TPH-D), TPH as motor oil (TPH-Mo), and polychlorinated biphenyls (PCBs). Site remediation activities were conducted in 2005 and 2006 and in October 2006, the California Department of Toxic Substances Control (DTSC) issued a “No Further Action” letter for the site.

Subsequent investigations conducted by the property developer revealed additional PCB-impacted soils at depth beneath the site. Investigations conducted in 2007 and 2008 revealed that the engineered fill (soil mixed with crushed concrete) used to backfill the excavations created during site demolition contained non-hazardous concentrations of PCBs (less than 50 milligrams per kilogram [mg/kg]). Laboratory testing demonstrated that although present at elevated concentrations (less than 50 mg/kg), the PCBs were insoluble and not mobile or bio-available. Groundwater and surface water samples collected from open excavations did not contain detectable concentrations of PCBs, at or above the method reporting limit of 0.5 micrograms per liter (µg/L). In 2012, RVSD graded the site to better manage stormwater by leveling clean soils that were stockpiled on-site. No other activities have been conducted on-site.

## 2. Purpose

The site is currently used as an operations base for RVSD, and includes two modular buildings and an area for sewer maintenance and operations equipment, vehicles, and materials staging. RVSD is working to identify future beneficial uses for the approximately 10.5-acre site. RVSD is submitting this application for a risk-based closure of the site under the Toxic Substances Control Act (Code of

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Federal Regulations, Title 40, Chapter I, Subchapter R, Part 761, Subpart D, 761.61(c) [40 CFR 761.61(c)], based on future land uses to include high-density (e.g., townhomes, condominiums) residential and commercial (e.g., retail, hotel) development. These future land uses are based on the current zoning and approved uses by the City of Larkspur. **However, the RVSD does not expect to seek long term development of the property for several years and in the interim is seeking approval from the United States Environmental Protection Agency (USEPA) to use the site for public parking, including overflow parking for the nearby Larkspur Ferry Terminal, operated by the Golden Gate Bridge Highway and Transportation District (GGBHTD).** The RVSD operations base currently occupying a portion of the site would remain during this interim period of public parking use.

### 3. Background and Site Setting

The former LWTP site was purchased by RVSD in the 1940's. The LWTP was constructed in 1948 and consisted of a Control Room building and connected Sludge Digester, Clarifiers #1 and #2, Biofilters #1 and #2, and the Sludge Holding Pit. By the early 1960's, Clarifier #3 and Biofilter #3 were added to the Plant. In the mid-1970's, a Chlorine Contact Chamber and microscreens were added to the southeast portion of the Site. The LWTP was decommissioned in 1985 when wastewater treatment for the Ross Valley service area was shifted to the Central Marin Sanitation Agency (CMSA) Wastewater Treatment Plant. A Site Plan of the former LWTP is included as Figure 2.

Demolition of the former LWTP facilities was conducted in 1998 and 1999. The treatment plant structures were primarily composed of reinforced concrete and concrete block, and steel. The exteriors of the aboveground portions of the Treatment Plant were painted with a cream to light green colored industrial paint. The LWTP structures were demolished and the concrete was crushed on-site for use as backfill material. Records indicate that the thin veneer of paint that had been applied to the exterior surfaces did not chip or flake off and was not practical to remove from the concrete. Some of the concrete pipes removed during the demolition process were also crushed and utilized as fill material.

The crushed concrete was tested for the presence of total and soluble lead, due to the paint that existed on the structures prior to demolition. Lead was known at the time to be a common constituent of industrial paint and testing of building materials and paint for lead was a standard practice. Testing of two crushed samples revealed low levels of total lead (42 milligrams per kilogram [mg/kg] in both samples) and soluble lead at 0.8 milligrams per liter (mg/L) and less than 0.50 mg/L (non-detectable at the analytical method reporting limit of 0.5 mg/L). The reported total and soluble lead concentrations were below applicable threshold concentrations and not considered to represent an adverse risk to human health or the environment for the intended future site use (residential and commercial mixed use). At the time (1998-1999) it was not realized that the paint on the concrete surfaces contained PCBs. The presence of PCBs in paint was a poorly publicized environmental concern, and testing for PCBs in paint on concrete was not a standard practice at the time. Activities conducted during site demolition were reported to the California Department of Toxic Substances Control (DTSC) by Questa Engineering in 2000.

The crushed concrete material was mixed with site soils and used as backfill in the various excavation areas created during the demolition process. Some of the crushed concrete was mixed



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with soils at the bottoms of deep excavations to stabilize wet, clayey soils, but a majority of the crushed concrete/soil mixture was used to backfill pits created by the demolition of the three clarifiers, the Sludge Digester with attached Control Room, and the Sludge Holding Pond. These areas had been excavated to relatively deep depths to remove the concrete tanks and structures. A thin layer of crushed concrete/soil mixture (approximately one foot thick) was also placed near surface grade in the areas of the three biofilters, and in other low lying areas of the site. Figure 3 illustrates the approximate extent of the crushed concrete and mixed fill soil in cross sections through the various site locations.

#### 4. Historical Site Investigation and Remediation Activities

The following summarizes the investigation and remediation activities conducted at the site between 1995 and 2008. Detailed information of the individual investigations and/or remedial actions can be found in the following reports:

- 1996 Questa Investigation (Questa 1996)
- 2000 Questa Report, June 12 (Questa 2000)
- 2004 Questa Phase II Investigation (Questa 2004b)
- 2006 EKI, Report documenting removal of contaminated fill (EKI 2006)
- 2006 NFA from DTSC
- 2007/2008 Questa Phase II Investigation (Questa 2008)

A Phase I Environmental Site Assessment and a Phase II Subsurface Investigation of accessible site locations were conducted between 1995 and 1996, and reported by Questa Engineering Corporation (Questa) in September 1996. Information from the Phase I and Phase II investigations was used to determine which areas of the site should be investigated further in conjunction with demolition of site facilities.

In 1998, RVSD contracted with Nute Engineering to prepare Demolition and Restoration Plans for the LWTP. The Plans called for the crushing of the concrete plant facilities on site and re-using the material as engineered fill. Phase I of the site demolition included removal of the Chlorine Contact Chamber, Sludge Thickener, and the eastern parking lot. Concrete slabs were temporarily stored in the Sludge Holding Pond area, and later crushed for re-use during Phase II of the demolition. Phase I demolition was accomplished between January and May of 1999.

Phase II demolition was conducted between July and September 1999. The structures demolished during Phase II included Biofilters No.1, 2 and 3; Clarifiers No.1, 2 and 3; and the Sludge Digester with attached Control Room. The results of samples collected during demolition were presented in a 12 June 2000 Questa report.

In 2004, a characterization of the imported fill was conducted by Questa to determine if any chemicals of potential concern were present in the imported soils. Results were presented in the June 2004 report prepared by Questa. The investigation included collecting samples using hand augers and electric augers. Twenty-six boreholes to depths of 2.5 to 3.0 feet below the ground surface were advanced and 88 soil samples were collected and composited for testing. Laboratory results indicated several chemicals of potential concern in the import fill, including TPH-D, TPH-Mo,

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and PCBs. These contaminants were found to occur in four specific site areas that had received imported fill.

Excavation and removal of contaminated fill containing constituents of concern exceeding the site-specific remedial goals approved by the DTSC (TPH-D at 100 mg/kg, TPH-Mo at 500 mg/kg and PCBs at 0.22 mg/kg [total PCBs]) from the four sub-sites was completed between September and November 2005. Results of confirmation sampling indicated that the residual contaminant concentrations were reduced in the four areas to levels below the site cleanup goals. A fifth sub-site was identified during completion of this work, and removal of soil exceeding the cleanup goals was achieved between February and March 2006. Erler & Kalinowski, Inc. (EKI) submitted a report in 2006 to the DTSC describing the removal actions, and on October 20, 2006, the DTSC issued a no further action letter for the site.

In November 2007, TRC/Lowney conducted an additional investigation of fill quality for John Laing Homes. TRC/Lowney's report, dated December 4, 2006, indicated that several additional areas of the imported fill contained TPH-D, TPH-Mo, and PCBs in excess of the site cleanup goals. A follow up investigation was performed by Questa and additional excavation work removed the contaminated imported fill from six small areas. Sampling conducted in 2007, following the additional remediation work, showed that some of the engineered fill (soil mixed with crushed concrete) located below the imported fill (i.e., below 3 feet bgs) contained detectable concentrations of total PCBs, especially in the areas of the former Clarifiers, Sludge Digester and Control Room Building, where thick sections of fill were placed following demolition of LWTP facilities. Low levels of total PCBs were also found to be prevalent in the location of the concrete crusher but at much shallower depths.

The results from the 2007 sampling event, showing detectable concentrations of PCBs at depths below three feet bgs, indicated that further investigation was needed. Additional soil and groundwater sampling was conducted in November 2007 and February 2008, to evaluate the extent of, and PCB concentrations in, the engineered fill material (crushed concrete and soil mixture) placed in the former wastewater treatment plant structure areas following their demolition. In total, the investigation included digging 46 test pits and advancing 14 soil borings. Test pits and boreholes were sited to more fully evaluate the presence of PCBs within the engineered fill material.

Test pits depths ranged from 5 to 10 feet below ground surface (bgs). Soil borings were completed using a Geoprobe® direct push drill rig to depths ranging from 15 to 25 feet bgs. Soil samples were collected from the test pits into pre-cleaned glass jars. Soil samples collected during drilling were stored in the acetate liner used to line the drill core tube. Groundwater samples were collected from nine open boreholes using clean disposable bailers. Sample locations are illustrated on Figure 4 and soil and groundwater results are presented in Tables 1 and 2, respectively. Laboratory reports are included as Attachment A.

Field records confirmed that the engineered fill is present at varying thicknesses within the former LWTP structure backfill areas. Furthermore, laboratory results demonstrate that these materials contain total PCBs at concentrations varying from trace levels (0.01 mg/kg) to moderate concentrations (up to 47 mg/kg). Within the Clarifier No. 1 area, the fill materials contained PCBs at dry weight concentrations generally ranging from non-detectable to 4.3 mg/kg, with a single outlier sample result at 53 mg/kg (QTP-CL#1-1@8'), which likely was due to the presence of paint chips concentrated in the sample tested by the laboratory. Based on a review of site photographs, the

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area around former Biofilter No. 1, was used as the concrete crushing area. A soil sample collected from this area contains the second highest detected PCB concentration (47 mg/kg).

Groundwater samples were filtered through a 0.45-micrometer filter by the laboratory prior to analysis. Laboratory results indicated that PCBs concentrations in the nine samples were non-detect, at a method reporting limits of 0.5 µg/L for Aroclor 1254 and Aroclor 1260, the two Aroclors detected in soil samples at the site.

#### 4.1 Surface Sediment Samples

A grass lined swale located along the eastern and southern portions of the former plant site collects surface water and transmits it to a storm drain collection system at the site boundary adjacent to Sir Francis Drake Boulevard. Samples of the sediment were collected from the former plant area and tested for the presence of total PCBs. Results of the testing indicated trace levels of total PCBs at or below 0.10 mg/kg wet weight (0.125 mg/kg dry weight, assuming 25% moisture content) in five of the seven samples collected. Sample locations are shown in Figure 4 and results are included in Table 3. Two samples contained total PCBs at concentrations of 0.8 mg/kg and 1.1 mg/kg by wet weight. These two samples were located within the backfill of Clarifier #3, which contains crushed concrete materials. Sediment control measures are in place in the stormwater runoff area, in accordance with the State Water Resources Control Board approved Stormwater Pollution Prevention Plan (SWPPP). The sediment controls include straw wattles, sand bag sediment dams, rock riprap sediment structures, and other sediment removal measures for the stormwater prior to leaving the project site.

#### 4.2 Surface Water and Groundwater Samples

During the soil removal activities, groundwater seeped into several excavation areas, and stormwater flowed into several pits. Water samples were collected on several occasions using clean Teflon bailers and were not filtered prior to analysis so that any PCBs attached to fine particulate matter or dissolved in the water would be detected, if present. Samples were analyzed for PCBs following USEPA Method 8082. Review of the laboratory results showed no detectable concentrations of PCBs in the samples collected. Results of testing are summarized in Table 3.

#### 4.3 Solubility Testing of Soil Samples

Samples collected from the excavation in the former location of the Clarifier No. 2, Sludge Digester, and Control Room were re-sampled and tested for the presence of soluble PCBs using the Waste Extraction Test (WET) leachate method (USEPA 3520C). PCB concentrations were determined in accordance with USEPA 8082. Review of the results revealed no detectable PCBs in the WET leachate samples. The same soils, or samples of adjacent soils were also acid digest extracted (EPA 3550B) and analyzed for PCBs (USEPA Method 8082). Total PCB concentrations in the acid digest extracted samples ranged from 0.175 mg/kg to 22.4 mg/kg by wet weight (0.198 to 25.3 mg/kg by dry weight, assuming 13% moisture content). Comparison of the results from the two samples sets indicates that the PCBs in the paint samples are non-soluble and not bioavailable. A summary of these data is presented in Table 4, and locations of the samples are shown in Figure 5.

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## 5. Identification of the PCB Source

Literature review, field observations and additional crushed concrete material sampling was completed to identify the probable source of the low levels of total PCBs. During literature review, it was found that PCBs have been used in various industrial applications in addition to their common usage in transformer oils (<http://www.epa.gov/pcb/>). Most notably for the project site are references to PCBs being present in industrial paints at other sites in the United States and as pipe coatings in water and wastewater applications. A plasticizer was reportedly manufactured by Monsanto Corporation that included concentrations of PCBs between 5 and 14 percent. This plasticizer was sold to independent paint manufacturers and suppliers who added the plasticizer to paint to create paint with a smooth glossy durable finish. This was reportedly used predominantly in industrial paints and other products (Environmental Protection, April 2001, Vol. 12, No. 4, page 58).

Samples collected from several excavation areas revealed the presence of crushed concrete with painted surfaces and the presence of coated or glazed crushed ceramic pipes. Laboratory analysis of these materials (prepared in accordance with USEPA 3550B and tested following USEPA 8082) revealed concentrations of total PCBs in acid-digested paint chips scraped from concrete at a concentration of 48,000 mg/kg; and crushed painted concrete samples at 0.75 mg/kg. Samples from pipe coatings that were acid digested had trace (0.078 mg/kg) to low (4.5 mg/kg) concentrations of total PCBs.

## 6. Current Site Use – District Operations Base

The current use is as a District vehicle parking area, Supervisory Control and Data Acquisition (SCADA) computer monitor/control building (and building expansion to the adjacent sanitary sewer pump station called “PS 10 Landing B”), sanitary sewer pipeline and manhole storage area (for new spare parts that are used on an as-needed basis), and incidental employee check-in (to the building). The southernmost approximate two acres are used for this area. The site is completely fenced off from the public with a cyclone chain-link fence of approximately 8-ft in height, and has a locked swing-gate at the main entrance. Lighting is provided by the SCADA Building / PS 10 Building Expansion, which serves as the employee check-in location. Employees meet here for an hour in the morning, and an hour at the end of the day. The SCADA Building / PS 10 Building Expansion is a pre-fabricated building that will eventually be replaced by a District Headquarters/Corporation Yard building.

In May 2012 the RVSD re-graded the site to minimize erosion and clean-up its appearance, spreading out clean soil piles that were brought on-site by the previous property developer (Campus-St. James) in 2007/2008. The RVSD also installed a stormwater conveyance system and erosion control measures on-site; and maintains best management practices to capture and control runoff, including a CalTrans-type grass mix on the sloped and terraced surfaces to prevent stormwater run-on and run-off from eroding the soils

Figures 6 and 7 are topographic maps illustrating site-related grades and features prior to and after grading. Figure 8 represents a cut/fill map that shows the relative change in site elevations, based on the grading activities. The re-grading activities did not remove any soil from the property, and did not re-distribute the PCB-impacted soils. However, the sample depths (as measured from ground

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surface) recorded during previous site investigations have changed because of the re-grading activities. Revised sample depths have been calculated based on elevation changes illustrated on the cut/fill map and are included in the summary tables.

## 7. Chemicals of Concern

Site soils and imported fill materials were tested for the presence of total petroleum hydrocarbons and associated volatile organic compounds (VOCs), lead and PCBs, based on the known historical industrial activities conducted at the site. Laboratory results of samples collected in 2004 and 2005 identified TPH-D, TPH-Mo and PCBs as chemicals of concern in the imported fill material and engineered fill used on-site. In 2006, RVSD excavated impacted soils containing those compounds at concentrations that exceeded the site-specific remedial goals. The DTSC issued a no further action letter for the site in October 2006. However, in 2007, an investigation conducted by the property developer identified additional areas of the site where elevated concentrations of PCBs existed in the engineered fill. No other compounds are known or suspected to be present at the site at concentrations that would represent a human health or an environmental concern.

## 8. Nature and Extent of PCB Contamination

Site characterization activities have identified residual PCBs in the paint adhered to the crushed concrete as the constituents of concern for the site. As such, PCBs are expected to occur at depths greater than 4 feet bgs, at locations where engineered fill was previously used on-site. This includes areas where former LWTP structures were removed and excavations were filled, as well as the area used for crushing the concrete during site demolition activities (see Figure 1).

PCBs detected in on-site samples include Aroclor 1254 and Aroclor 1260. Detectable concentrations of total PCBs range from 0.01 mg/kg to 53 mg/kg, with only one sample exceeding the 50 mg/kg TSCA threshold and one additional sample exceeding the 25 mg/kg threshold for low occupancy use (40 CFR 761.61 (a)(4)(i)(B)(1)). The two samples are QTP-08-17 (47 mg/kg @ 5.9 feet bgs, and QTP-CL#1-1 (53 mg/kg at 11 feet bgs). Sample locations are illustrated on Figure 9. Samples with PCB concentrations exceeding the USEPA screening level concentration of 0.22 mg/kg for residential use are located throughout the site, at depths ranging from 0.7 feet bgs to 16 feet bgs.

## 9. Phase I Site Development – Interim Parking for Regional Public Transportation

The Larkspur Landing area has developed into a key regional transportation hub for Marin County at the intersection of the 101 and 580 freeways, Sir Francis Drake Blvd (the primary east-west arterial for central Marin), and the GGBHTD's Larkspur Ferry Terminal. The Ferry service is operating at maximum capacity during peak commute hours, and is projected to need further expansion to meet continued growth in demand for public transportation from central Marin to San Francisco. In addition, the Sonoma Marin Regional Transit (SMART) Train project, sponsored by the Marin Transit Authority (MTA) and the Regional Transit Connection (RTC), is scheduled for construction in the next few years, with the SMART Train's southern terminus station to be located adjacent to the Larkspur Ferry Terminal. The area has also experienced a resurgence in its retail development. The combined impact of these factors is that public parking has become a significant constraint, with the

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Ferry complex and adjacent commercial and mixed use parking areas experiencing demands far above current capacity on a daily basis.

To help meet the parking needs of the regional transportation hub and Larkspur Landing area, the community is in urgent need of additional parking for alternative transportation. The RVSD is interested in expediting the approval process for interim use of a portion of the site for public parking.

As presented in Section 3 (Background and Site Setting) and Section 6 (Nature and Extent of PCB Contamination), the maximum PCB concentration in the upper 3 feet of soils is 22.4 mg/kg and the 95 UCL for PCBs in the upper 3 feet of soils is 1.5 mg/kg (Attachment B), which are less than the USEPA standard of 25 mg/kg for low-occupancy site use (40 CFR 761.61 (a)(4)(i)(B)(1)). Historical sample results only identified two distinct samples with total PCB concentrations exceeding the 25 mg/kg standard, and both are located below 3 feet bgs. Because the surface of the site has been graded and at least one foot of clean fill covers the areas of the site to be used for parking, the exposure pathway to nearby residents and the general public accessing the site on a short-term basis is incomplete. Therefore, the additional risk to these two populations from the site contaminants is minimal and no further remediation or site improvements are needed for the proposed interim use.

The RVSD anticipates developing approximately 5 acres as temporary parking (Figure 10). The site would be segregated into three general areas; continued operations staging use by RVSD, temporary parking use by GGBHTD, and vacant/unused area. The temporary parking will be on two separate graded surfaces, conforming to the current land configuration. The RVSD will install a suitable surface over the entire parking area, based on public parking use service requirements and City permitting requirements. Interim parking surfacing may consist of compact gravel or a variety of lower grade (less permanent) asphaltic surfaces based on service needs such as avoiding dust, walking surface suitability for the public, and all-weather use by public vehicles. The grade will be relatively flat, with appropriate slope for stormwater drainage.

Because the PCBs in the subsurface are contained in the paints adhered to the crushed concrete, any downward migration of surface water seeping through the parking area surface is not expected to cause contaminant migration / groundwater impacts (as confirmed by groundwater samples collected on-site in 2008). Parking areas will be bermed to keep stormwater from running off into uncontrolled areas of the site. Best Management Practices will be used to capture site sediments in the drainage channel on the east side of the site and the stormwater basin at the south end of the site, in accordance with current State and federal regulations. A fence will be installed around the undeveloped portions of the site to control access.

As part of the approval for interim use as a commuter parking lot, the RVSD will conduct quarterly inspections of the facility to ensure that the existing cover remains intact and competent. The RVSD will repair eroded areas of the surface cover in a timely manner, and keep written records of the inspections and repairs. The written logs will be kept in the RVSD's office and will be made available for review upon request.

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## 10. Potential Health Risk Evaluation for Proposed Interim Use

A site-specific human health risk assessment (HRA) was prepared in 2008 and included a detailed examination of the exposure pathways and the nature of the PCBs in the soil. Several unique site-specific circumstances were considered when preparing that HRA. First, the PCB concentrations in soil, as reported by the laboratory, are not the result of PCB-containing fluid spilled onto the ground; rather, they originate from two sources, as demonstrated by the in-depth investigations conducted on-site between 2004 and 2008. The primary source of the PCBs is the paint-binder matrix that was applied to concrete pipes and structures at the LWTP. The painted concrete structures were demolished on-site and the concrete was crushed and used to backfill the excavations and low-lying areas. The secondary source is the PCB-impacted soils that were brought onto the site by the former developer, Campus-St. James.

Second, soil samples submitted to the laboratory for analysis using the Waste Extraction Test (WET) procedure showed non-detectable concentrations of PCBs. It was only when the soil samples underwent acid digestion that PCBs were found at very low levels (average concentration in soil is 0.9 ppm and the 95 UCL = 1.9 ppm). These results indicate that the PCBs are bound in the paint adhered to the surface of the concrete particles, and are, therefore, not available to the environment or for human exposure. Given that all of the concrete-bound PCB samples are now located at least 5 feet below the ground surface, PCB-impacted soils imported onto the site by Campus-St. James reside below several feet of clean fill, and the results of the laboratory analyses indicate that the PCBs are not bioavailable, the dermal exposure pathway – and perhaps even the ingestion pathway – is incomplete and should not be included in the HRA, for the proposed use of the site as a temporary parking facility.

In the 2008 HRA, the PCB cancer risk was calculated for the commercial/industrial receptor for the ingestion pathway and the inhalation of re-suspended dusts, another potential pathway that is most likely incomplete. The calculated risk was  $6.7E-07$  for the on-site commercial/industrial receptor and the chronic non-cancer hazard index was 0.046. Both of these values are far below the level of regulatory significance and indicate that no significant risk exists to on-site workers. If the site were used as a parking lot, the exposure frequency and duration for an individual parking a car at the site would be far less than that for an on-site worker who was assumed to spend an entire workday at the site. Therefore, the risks to the public using the site as a parking lot based on current conditions, with no additional cover or cap, would be insignificant.

The HRA used very conservative (health-protective) assumptions when calculating risk including the assumption that 100% of the soils ingested by an on-site worker would come from the site, 100% of the soil would contain PCBs, and that 100% of the PCBs found in the soil would be bioavailable, that is, would be absorbed into the body upon ingestion. The assumption of 100% absorption ignores the fact that at least a portion of the PCBs would not be released from the painted concrete particles by digestive fluids (including stomach acid) and thus would not be available for absorption. Based on these conservative assumptions, actual risks from PCBs are likely less than those calculated in the HRA.

Risk assessments involving public or worker exposure to PCBs usually involve liquid PCBs spilled on soil or in water that are available for human exposure and are bioavailable when exposure occurs. It is doubtful that all the PCBs bound-up in a paint matrix that were not released in the WET

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procedure, which involves treatment with citric acid for 48 hours, would be bioavailable if ingested and, therefore, the risk assessment likely over-estimates exposure, hazard, and risk. This contention is supported by a recent risk assessment conducted by the U.S. EPA that used a factor of 30% for absorption of PCBs in soil when assessing exposure by the ingestion pathway (U.S. Environmental Protection Agency (EPA). 2008. "*Revised Final Human Health Baseline Risk Assessment report for Anniston PCB site Operable Unit 3*". EPA contract 68-S7-03-04. January).

Furthermore, the proposed parking area will be covered by at least 1 foot of clean compacted gravel, or comparable material that will withstand vehicular traffic and control dust. Therefore, future workers or parkers will not encounter the buried concrete particles coated with PCB-paint, and any dust generated from cars driving across the constructed surface will not contain PCB-laden particles, thus eliminating the potential exposure pathways, further reducing the potential risk to human health and the environment.

Additionally, stormwater and groundwater samples collected during historical investigations on the site demonstrate that stormwater and shallow groundwater have not been impacted by the presence of the PCB-laden crushed concrete buried on-site, even though a surface cap has not existed since the demolition of the LWTP. As such, stormwater controls and best management practices will be engineered to meet the requirements of California's Industrial Stormwater General Permit.

Based on the above evidence, the PCBs on the LWTP site do not pose a significant risk to workers, public parkers, or the environment and a cap or cover is not warranted to protect human health or the environment for the proposed interim use.

## 11. Phase II Site Development – Residential and Commercial Mixed-use Development

The RVSD is not currently pursuing long term development of the site. However, based on current zoning and community land use needs, future use will likely be similar to plans developed for the site in 2008, which included high-density residential (townhouses, condominiums) and commercial (retail, hotel). To support these future land uses, the RVSD will be pursuing un-restricted closure of the site, following a risk-based approach that will be protective of human health and the environment. The RVSD will present a risk-based remedial goal for unrestricted use in the second phase of this Application.



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## Attachments

Attachment A – Laboratory Reports for Applicable Confirmation Soil Samples  
Attachment B – 95-percent Upper Confidence Limit Calculations

## References

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## Tables

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Table 1 – November 2007 and February 2008 Soil Sample Results Summary

Table 2 – November 2007 and February 2008 Groundwater Sample Results Summary

Table 3 – Surface Sediment Sample Results Summary

Table 4 – Solubility Testing Sample Results Summary

Table 1: November 2007 and February 2008 Soil Sample Results Summary

SAMPLE ID AND DEPTH	Depth (ft bgs)	Revised Depth <sup>(a)</sup> (ft bgs)	Aroclor							PCBs	
			1016	1221	1232	1242	1248	1254	1260	(total) <sup>(b)</sup>	
			Concentration (mg/kg)								
Excavation Areas D & E 2006											
D2-W@1.25'	1.25	5.25	ND <sup>(c)</sup>	ND	ND	ND	ND	ND	ND	ND	ND
D7-S@1.25'	1.25	1.25	ND	ND	ND	ND	ND	ND	ND	0.15	0.15
D9-N@1.25'	1.25	4.25	ND	ND	ND	ND	ND	ND	ND	ND	ND
D11-B@5.5'	5.5	8.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
D12-B@5.5'	5.5	8.5	ND	ND	ND	ND	ND	ND	ND	0.12	0.12
D14-E@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
D15-E@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
D-16-(B)@6'	6.0	6	ND	ND	ND	ND	ND	ND	ND	ND	ND
D-17-B@6'	6.0	6	ND	ND	ND	ND	ND	ND	ND	ND	ND
D-19-NE@6'	6.0	6	ND	ND	ND	ND	ND	ND	ND	0.15	0.15
D-20-B@5.5'	5.5	5.5	ND	ND	ND	ND	ND	ND	ND	0.13	0.13
D-22-B@5.5'	5.5	5.5	ND	ND	ND	ND	ND	ND	ND	0.057	0.057
D23-E@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
D24-B@5.5'	5.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
D25-N@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
E6-B@6.5'	6.5	8.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
E7-S@3'	3.0	5	ND	ND	ND	ND	ND	ND	ND	0.049	0.049
E8-W@3'	3.0	5	ND	ND	ND	ND	ND	ND	ND	0.082	0.082
E10-N@3'	3.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
E11-B(S)@3.75'	3.75	5.75	ND	ND	ND	ND	ND	ND	ND	0.045	0.045
E12-SE@1'	1.0	3	ND	ND	ND	ND	ND	ND	ND	0.01	0.01
E14-E@3'	3.0	5	ND	ND	ND	ND	ND	ND	ND	0.14	0.14
E17-B(NE)@9.0'	9.0	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
Excavation areas F, I, J, & K 2007											
F1N@1.5'	1.5	1.5	ND	ND	ND	ND	ND	ND	0.120	0.086	0.206
F5BM@3.5'	3.5	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
F6BE@3.5'	3.5	3.5	ND	ND	ND	ND	ND	ND	ND	0.020	0.020
F8NE@1.5'	1.5	1.5	ND	ND	ND	ND	ND	ND	ND	0.033	0.033
F9NW@1.5'	1.5	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
F12E@1.5'	1.5	1.5	ND	ND	ND	ND	ND	ND	0.047	0.038	0.085
F13SE@1.5'	1.5	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
F14SW@1.5'	1.5	1.5	ND	ND	ND	ND	ND	ND	ND	0.018	0.018
F15BW@5.0'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
F16W@2.0'	2.0	2	ND	ND	ND	ND	ND	ND	ND	0.029	0.029
F17BFW@4.0'	4.0	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
J3E@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	0.057	0.081	0.138
J5B@5.0'	5.0	5	ND	ND	ND	ND	ND	ND	ND	0.017	0.017
J6N@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
J7S@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
J8WN@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
J10BW@5'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
J12WS@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	0.310	0.150	0.460
K1S@2.5'	2.5	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
K2N@2.5'	2.0	3	ND	ND	ND	ND	ND	ND	0.100	0.094	0.194
K3E@2.5'	2.5	3	ND	ND	ND	ND	ND	ND	0.180	0.100	0.280
K4W@2.5'	2.5	3.75	ND	ND	ND	ND	ND	ND	0.013	0.016	0.029
K5B@5.0'	5.0	6	ND	ND	ND	ND	ND	ND	0.096	0.100	0.196

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SAMPLE ID AND DEPTH	Depth (ft bgs)	Revised Depth <sup>(a)</sup> (ft bgs)	Aroclor							PCBs (total) <sup>(b)</sup>
			1016	1221	1232	1242	1248	1254	1260	
			Concentration (mg/kg)							
Cleanup Area H 2007										
H5B@4.0'	4.0	6.8	ND	ND	ND	ND	ND	ND	ND	ND
H6NE@2.0'	2.0	4.5	ND	ND	ND	ND	ND	0.075	0.056	0.131
H9SW@2.0'	2.0	11	ND	ND	ND	ND	ND	ND	ND	ND
H10EN@2.0'	2.0	4.6	ND	ND	ND	ND	ND	ND	ND	ND
H11ES@2.0'	2.0	4.75	ND	ND	ND	ND	ND	ND	ND	ND
H12WN@2.0'	2.0	5	ND	ND	ND	ND	ND	ND	ND	ND
H13WS@2.0'	2.0	5	ND	ND	ND	ND	ND	ND	ND	ND
H14BNE@4.0'	4.0	7	ND	ND	ND	ND	ND	ND	ND	ND
H15BSW@4.0'	4.0	7	ND	ND	ND	ND	ND	ND	ND	ND
H17SE@2.0'	2.0	5	ND	ND	ND	ND	ND	0.038	0.052	0.090
H18EN@2.0'	2.0	4.9	ND	ND	ND	ND	ND	ND	ND	ND
H19ES@2.0'	2.0	4.9	ND	ND	ND	ND	ND	0.130	0.071	0.201
H21BNE@6.0'	6.0	9	ND	ND	ND	ND	ND	ND	ND	ND
H24NW/COR@2.0'	2.0	5	ND	ND	ND	ND	ND	ND	ND	ND
H25NW/W@2.0'	2.0	5	ND	ND	ND	ND	ND	ND	ND	ND
H26BNW/W@4.0'	4.0	7	ND	ND	ND	ND	ND	ND	ND	ND
H27BNW/E@4.0'	4.0	7	ND	ND	ND	ND	ND	0.038	0.035	0.073
H28 NW/SE@2.0'	2.0	4.6	ND	ND	ND	ND	ND	0.027	0.054	0.081
H30 NW/NW@2.0'	2.0	5	ND	ND	ND	ND	ND	ND	ND	ND
H31 NWB@4.0'	4.0	6.75	ND	ND	ND	ND	ND	ND	0.016	0.016
H32NECORNER@2'	2.0	4.25	ND	ND	ND	ND	ND	0.023	0.016	0.039
H33NECBOTTOM@5'	5.0	7.3	ND	ND	ND	ND	ND	ND	ND	ND
H34NN@2'	2.0	4.75	ND	ND	ND	ND	ND	0.034	0.033	0.067
H35ECORNER@2.0'	2.0	4.25	ND	ND	ND	ND	ND	0.240	0.260	0.500
H36SESIDEWALL@2.0'	2.0	4.4	ND	ND	ND	ND	ND	0.036	0.040	0.076
H37EB@4.0'	4.0	6.3	ND	ND	ND	ND	ND	ND	ND	ND
Cleanup Area G 2008										
G1N@3.0'	3.0	4	ND	ND	ND	ND	ND	0.057	0.100	0.157
G3E@2.0'	2.0	2.5	ND	ND	ND	ND	ND	0.160	0.032	0.192
G5SW@3.5'	3.5	4	ND	ND	ND	ND	ND	0.021	0.030	0.051
G6NW@2.0'	2.0	3	ND	ND	ND	ND	ND	ND	ND	ND
G8SWB@6.5'	6.5	6.5	ND	ND	ND	ND	ND	0.026	0.029	0.055
G10B@7.5'	7.5	7.5	ND	ND	ND	ND	ND	0.055	0.074	0.129
G11S@3.0'	3.0	3	ND	ND	ND	ND	ND	0.071	0.074	0.145
G18BN@7.0'	7.0	9	ND	ND	ND	ND	ND	0.080	0.090	0.170
G20BW@7.0'	7.0	7	ND	ND	ND	ND	ND	0.044	0.054	0.098
G24BW@7.0'	7.0	7	ND	ND	ND	ND	ND	0.140	0.071	0.211
G34BN@7'	7.0	9	ND	ND	ND	ND	ND	0.049	0.050	0.099
G39BOTWS@7'	7.0	8	ND	ND	ND	ND	ND	ND	ND	ND
G41BOTN@7.5'	7.5	9.5	ND	ND	ND	ND	ND	0.078	0.079	0.157
G52BOTE6.5'	6.5	7.5	ND	ND	ND	ND	ND	ND	ND	ND
G55SESW@6.5'	6.5	6.5	ND	ND	ND	ND	ND	0.036	0.046	0.082
G58BOT@9.5'	9.5	9.5	ND	ND	ND	ND	ND	0.360	0.710	1.070
G59BOT@9.5'	9.5	9.5	ND	ND	ND	ND	ND	0.160	0.260	0.420
G60BOT SEN@8'	8.0	8	ND	ND	ND	ND	ND	0.140	0.400	0.540
G61BOT SES@8'	8.0	8	ND	ND	ND	ND	ND	0.130	0.180	0.310
G62SE@4.5'	4.5	4.5	ND	ND	ND	ND	ND	0.240	0.450	0.690
G63SE@4.5'	4.5	4.5	ND	ND	ND	ND	ND	3.400	4.800	7.800

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			1016	1221	1232	1242	1248	1254	1260	
			Concentration (mg/kg)							
G64SE@4.5'	4.5	4.5	ND	ND	ND	ND	ND	0.380	0.680	1.060
G65SE@4.5'	4.5	4.5	ND	ND	ND	ND	ND	1.200	2.100	3.300
G66E@4.5'	4.5	5.5	ND	ND	ND	ND	ND	0.032	0.049	0.082
G67NE@4.5'	4.5	5.5	ND	ND	ND	ND	ND	ND	0.013	0.013
G68NE@4.5'	4.5	5.5	ND	ND	ND	ND	ND	0.120	0.240	0.360
G69N@4.5'	4.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND
G70@8.5'	8.5	8.5	ND	ND	ND	ND	ND	0.200	0.190	0.390
G72@8'	8.0	8	ND	ND	ND	ND	ND	0.330	0.410	0.740
G73@11.5'	11.5	12.5	ND	ND	ND	ND	ND	0.052	0.066	0.118
G74@11.5'	11.5	11.5	ND	ND	ND	ND	ND	0.034	0.051	0.085
G76NWB@10'	10.0	12.5	ND	ND	ND	ND	ND	ND	ND	ND
G77NW@4.5'	4.5	7	ND	ND	ND	ND	ND	0.120	0.130	0.250
G78NW@9'	9.0	11.5	ND	ND	ND	ND	ND	3.400	2.100	5.500
G79WN@4.5'	4.5	7	ND	ND	ND	ND	ND	ND	ND	ND
G80WN@9'	9.0	11.5	ND	ND	ND	ND	ND	1.400	1.400	2.800
G81NWB@10'	10.0	12.5	ND	ND	ND	ND	ND	1.600	1.300	2.900
G82NB@5'	5.0	7	ND	ND	ND	0.52	ND	0.450	0.370	1.340
G83@10'	10.0	10	ND	ND	ND	ND	ND	0.200	0.300	0.500
G84@11.5'	11.5	11.5	ND	ND	ND	ND	ND	ND	ND	ND
G85@5'	5.0	6	ND	ND	ND	ND	ND	0.200	0.200	0.400
G86@4.5'	4.5	4.5	ND	ND	ND	ND	ND	0.360	0.720	1.080
G87@4.5'	4.5	4.5	ND	ND	ND	ND	ND	0.220	0.230	0.450
G88@4.5'	4.5	4.5	ND	ND	ND	ND	ND	0.920	0.910	1.830
G89@4.5'	4.5	4.5	ND	ND	ND	ND	ND	0.870	0.790	1.660
G90@3'	3.0	3	ND	ND	ND	ND	ND	1.300	1.200	2.500
G91@3'	3.0	4	ND	ND	ND	ND	ND	0.830	0.720	1.550
G92@3'	3.0	4	ND	ND	ND	ND	ND	0.310	0.280	0.590
G93@3'	3.0	4	ND	ND	ND	ND	ND	2.300	2.300	4.600
G94@4'	4.0	5	ND	ND	ND	ND	ND	ND	ND	ND
G95@3'	3.0	5	ND	ND	ND	ND	ND	1.200	1.200	2.400
G96@4'	4.0	6	ND	ND	ND	ND	ND	ND	ND	ND
G97@7.5'	7.5	8.5	ND	ND	ND	ND	ND	ND	ND	ND
QTR-G1-N@4'	4.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTR-G1-SW-W@5'	5.0	6	ND	ND	ND	ND	ND	ND	ND	ND
QTR-G2-W@6.5'	6.5	6.5	ND	ND	ND	ND	ND	ND	ND	ND
QTR-G2-N@4.5'	4.5	4.5	ND	ND	ND	ND	ND	ND	ND	0.012
QTP-G5SE@4.5'	4.5	4.5	ND	ND	ND	ND	ND	0.048	0.063	0.111
QTP-G6SW@4.5'	4.5	5.5	ND	ND	ND	ND	ND	0.130	0.150	0.280
QTP-G7W@4.5'	4.5	5.5	ND	ND	ND	ND	ND	0.270	0.092	0.362
QTP-11@9'	9.0	9	ND	ND	ND	ND	ND	ND	ND	ND
QTP-12@9'	9.0	9	ND	ND	ND	ND	ND	0.210	0.320	0.530
QTP-13@9'	9.0	9	ND	ND	ND	ND	ND	ND	ND	ND
G-78@9'* TTLC	9.0	11.5	ND	ND	ND	ND	ND	3.400	2.500	5.900
Nov. 2007 Sampling										
QTP-BF#1-1@3'	3.0	5.25	ND	ND	ND	ND	ND	0.130	0.170	0.300
QTP-BF#1-1@4'	4.0	6.25	ND	ND	ND	ND	ND	1.400	2.000	3.400
QTP-BF#1-1@5.5'	5.5	7.75	ND	ND	ND	ND	ND	ND	ND	ND
QTP-BF#2-1@3'	3.0	4.5	ND	ND	ND	ND	ND	2.100	2.000	4.100
QTP-BF#2-1@5'	5.0	6.5	ND	ND	ND	ND	ND	ND	ND	ND

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			1016	1221	1232	1242	1248	1254	1260	
			Concentration (mg/kg)							
QTP-BF#2-2@3'	3.0	3	ND	ND	ND	ND	ND	1.600	1.600	3.200
QTP-BF#2-2@5'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-BF#3-1@3'	3.0	3	ND	ND	ND	ND	ND	0.100	0.079	0.179
QTP-BF#3-1@5'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-BF#3-2@3'	3.0	3	ND	ND	ND	ND	ND	0.039	0.057	0.090
QTP-BF#3-2@5'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-BF#3-3@3'	3.0	3	ND	ND	ND	ND	ND	0.290	0.370	0.660
QTP-BF#3-3@6'	6.0	6	ND	ND	ND	ND	ND	0.022	0.017	0.039
QTP-BF#3-4@3'	3.0	3	ND	ND	ND	ND	ND	0.430	0.320	0.750
QTP-BF#3-4@5'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-OS-2@3'	3.0	6.25	ND	ND	ND	ND	ND	0.730	0.640	1.370
QTP-OS-2@5'	5.0	8.25	ND	ND	ND	ND	ND	0.032	0.025	0.057
QTP-CL#1-1@3'	3.0	6	ND	ND	ND	ND	ND	ND	ND	ND
QTP-CL#1-1@4.5'	4.5	7.5	ND	ND	ND	ND	ND	0.076	0.098	0.174
QTP-CL#1-1@6'	6.0	9	ND	ND	ND	ND	ND	0.160	0.220	0.380
QTP-CL#1-1@8'	8.0	11	ND	ND	ND	ND	ND	15.000	38.000	53.000
QTP-CL#1-1@10'	10.0	13	ND	ND	ND	ND	ND	0.024	0.034	0.058
QTP-SD1@3'	3.0	4	ND	ND	ND	ND	ND	0.048	0.035	0.083
QTP-SD1@5'	5.0	6	ND	ND	ND	ND	ND	0.022	0.029	0.051
QTP-SLT-1@3'	3.0	7	ND	ND	ND	ND	ND	ND	ND	ND
QTP-SLT-1@5'	5.0	9	ND	ND	ND	ND	ND	ND	ND	ND
QTP-AZ-1@3'	3.0	5.25	ND	ND	ND	ND	ND	ND	ND	ND
QTP-AZ-1@4.5'	4.5	6.75	ND	ND	ND	ND	ND	ND	ND	ND
QTP-PL-1@3'	3.0	3.75	ND	ND	ND	ND	ND	0.220	0.580	0.900
QTP-PL-1@5.5'	5.5	6.25	ND	ND	ND	ND	ND	ND	ND	ND
QTP-CL#3-1@3'	3.0	3	ND	ND	ND	ND	ND	2.000	2.200	4.200
QTP-CL#3-1@4.5'	4.5	4.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-CL#3-1@6'	6.0	6	ND	ND	ND	ND	ND	ND	ND	ND
QTP-CL#3-2@3'	3.0	2	ND	ND	ND	ND	ND	2.100	2.700	4.800
QTP-CL#3-2@4.5'	4.5	3.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-CL#3-3@3'	3.0	3	ND	ND	ND	ND	ND	ND	ND	ND
QTP-CL#3-3@5'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-CL#3-3@7'	7.0	7	ND	ND	ND	ND	ND	0.028	0.031	0.059
QTP-CL#3-3@9'	9.0	9	ND	ND	ND	ND	ND	0.049	0.016	0.065
QTP-PP-1@3'	3.0	3	ND	ND	ND	ND	ND	0.700	0.580	1.280
QTP-PP-1@5'	5.0	5	ND	ND	ND	ND	ND	0.280	0.220	0.500
QTP-PP-1@6.5'	6.5	6.5	ND	ND	ND	ND	ND	0.400	0.340	0.740
QTP-PP-1@8'	8.0	8	ND	ND	ND	ND	ND	0.087	0.073	0.160
QTP-OS-1@3'	3.0	3	ND	ND	ND	ND	ND	ND	ND	ND
QTP-OS-1@5'	5.0	5	ND	ND	ND	ND	ND	0.059	0.067	0.126
QTP-OS-1@7'	7.0	7	ND	ND	ND	ND	ND	0.025	0.022	0.047
Feb. 2008 Test Pit Sampling										
QTP-08-01@3'	3.0	7	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-01@4'	4.0	8	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-02@6" (0.5')	0.5	4.5	ND	ND	ND	ND	ND	1.200	1.100	2.300
QTP-08-02@3.0'	3.0	7	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-03@18" (1.5')	1.5	6.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-03@3'	3.0	8	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-04@1.5'	1.5	4.5	ND	ND	ND	ND	ND	ND	ND	ND

Table 1: November 2007 and February 2008 Soil Sample Results Summary

SAMPLE ID AND DEPTH	Depth (ft bgs)	Revised Depth <sup>(a)</sup> (ft bgs)	Aroclor							PCBs (total) <sup>(b)</sup>
			1016	1221	1232	1242	1248	1254	1260	
			Concentration (mg/kg)							
QTP-08-04@3.0'	3.0	6	ND	ND	ND	ND	ND	ND	ND	0.015
QTP-08-04@4.5'	4.5	7.5	ND	ND	ND	ND	ND	0.039	0.053	0.094
QTP-08-05@1.5'	1.5	1.5	ND	ND	ND	ND	ND	0.230	0.170	0.400
QTP-08-05@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-06@0.5'	0.5	0.7	ND	ND	ND	ND	ND	0.100	0.180	0.280
QTP-08-06@0.5'	0.5	0.7	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-06@1.5'	1.5	1.7	ND	ND	ND	ND	ND	ND	0.023	0.023
QTP-08-07@0.5'	0.5	1.5	ND	ND	ND	ND	ND	0.019	0.025	0.044
QTP-08-07@1.5'	1.5	2.5	ND	ND	ND	ND	ND	0.038	0.075	0.113
QTP-08-08@1.0'	1.0	1	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-08@20" (1.7')	1.7	1.7	ND	ND	ND	ND	ND	0.490	0.680	1.070
QTP-08-08@42" (3.5')	3.5	3.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-08INNER@12" (1.0')	1.0	1	ND	ND	ND	ND	ND	0.390	0.510	0.900
QTP-08-09@1.5'	1.5	1.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-09@2.5'	2.5	2.5	ND	ND	ND	ND	ND	2.800	3.900	5.700
QTP-08-09@4.0'	4.0	4	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-10@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	0.012	0.012
QTP-08-10@4.0'	4.0	4	ND	ND	ND	ND	ND	3.000	4.700	7.700
QTP-08-10@5.0'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-11@28" (2.33')	2.3	2.33	ND	ND	ND	ND	ND	0.420	0.490	0.910
QTP-08-11@3.0'	3.0	3	ND	ND	ND	ND	ND	0.220	0.460	0.680
QTP-08-11@4.0'	4.0	4	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-12@2.5'	2.5	2.5	ND	ND	ND	ND	ND	0.290	0.360	0.670
QTP-08-12@5'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-13@2.5'	2.5	2.5	ND	ND	ND	ND	ND	0.240	0.230	0.470
QTP-08-13@4'	4.0	4	ND	ND	ND	ND	ND	0.260	0.760	1.020
QTP-08-13@5'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-14@3.5'	3.5	5	ND	ND	ND	ND	ND	2.700	3.100	5.800
QTP-08-14@4.5'	4.5	6	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-14@5.5'	5.5	7	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-15@3.5'	3.5	6	ND	ND	ND	ND	ND	1.200	1.100	2.300
QTP-08-15@4.5'	4.5	7	ND	ND	ND	ND	ND	1.100	1.100	2.200
QTP-08-15@5.5'	5.5	8	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-16@1.5'	1.5	4.5	ND	ND	ND	ND	ND	0.830	1.400	2.230
QTP-08-16@4'	4.0	7	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-17@12" (1.0')	1.0	2.9	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-17@48" (4.0')	4.0	5.9	ND	ND	ND	ND	ND	16.000	31.000	47.000
QTP-08-18@2.0'	2.0	2	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-18@3.75'	3.8	3.75	ND	ND	ND	ND	ND	0.076	0.090	0.166
QTP-08-18@5.0'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-19@2.0'	2.0	2	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-19@3.5'	3.5	3.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-20@2.5'	2.5	1.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-20@5.0'	5.0	4	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-21@2.5'	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-21@5.0'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-22@2.0'	2.0	1.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-22@4.0'	4.0	3.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-23@1.5'	1.5	1.5	ND	ND	ND	ND	ND	ND	ND	ND

Table 1: November 2007 and February 2008 Soil Sample Results Summary

SAMPLE ID AND DEPTH	Depth (ft bgs)	Revised Depth <sup>(a)</sup> (ft bgs)	Aroclor							PCBs (total) <sup>(b)</sup>
			1016	1221	1232	1242	1248	1254	1260	
			Concentration (mg/kg)							
QTP-08-23@3.5'	3.5	3.5	ND	ND	ND	ND	ND	0.150	0.170	0.320
QTP-08-23@5.5'	5.5	5.5	ND	ND	ND	ND	ND	0.110	0.130	0.240
QTP-08-24@20" (1.67')	1.7	1.67	ND	ND	ND	ND	ND	0.110	0.130	0.240
QTP-08-24@48" (4.0')	4.0	4	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-25@2.0'	2.0	0	ND	ND	ND	ND	ND	0.064	0.072	0.136
QTP-08-26@8" (0.67')	0.7	1.67	ND	ND	ND	ND	ND	0.014	0.029	0.043
QTP-08-27@1.0'	1.0	1	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-27@3.5'	3.5	3.5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-27@5.0'	5.0	5	ND	ND	ND	ND	ND	ND	ND	ND
QTP-08-28@2.5'	2.5	3.5	ND	ND	ND	ND	ND	0.200	0.350	0.550
QTP-08-28@4.5'	4.5	5.5	ND	ND	ND	ND	ND	2.900	3.700	6.600
QTP-08-28@6.0'	6.0	7	ND	ND	ND	ND	ND	ND	ND	ND
Feb. 2008 Borehole Sampling										
QB-08-01@2'	2.0	3.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-01@6'	6.0	7.5	ND	ND	ND	ND	ND	2.300	3.300	5.600
QB-08-01@8'	8.0	9.5	ND	ND	ND	ND	ND	0.320	0.420	0.740
QB-08-01@10'	10.0	11	ND	ND	ND	ND	ND	0.890	0.750	1.640
QB-08-01@12'	12.0	13.5	ND	ND	ND	ND	ND	0.019	0.021	0.039
QB-08-02@1'	1.0	2.5	ND	ND	ND	ND	ND	0.180	0.200	0.380
QB-08-02@6'	6.0	7.5	ND	ND	ND	ND	ND	0.100	0.110	0.210
QB-08-02@10'	10.0	11.5	ND	ND	ND	ND	ND	0.360	0.410	0.770
QB-08-02@11.5'	11.5	13	ND	ND	ND	ND	ND	0.760	0.620	1.380
QB-08-02@13'	13.0	14.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-03@5.5'	5.5	9.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-03@8'	8.0	12	ND	ND	ND	ND	ND	0.280	0.350	0.630
QB-08-03@11.5'	11.5	15.5	ND	ND	ND	ND	ND	0.040	0.044	0.084
QB-08-03@14.5'	14.5	18.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-03@15.5'	15.5	19.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-04@3.5'	3.5	5	ND	ND	ND	ND	ND	0.400	0.430	0.830
QB-08-04@6'	6.0	7.5	ND	ND	ND	ND	ND	0.740	0.910	1.650
QB-08-04@9'	9.0	10.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-04@12.5'	12.5	14	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-04@14.5'	14.5	16	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-04@20'	20.0	21.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-05@2'	2.0	3	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-05@5'	5.0	6	ND	ND	ND	ND	ND	0.190	0.280	0.470
QB-08-05@7'	7.0	8	ND	ND	ND	ND	ND	0.440	0.610	1.050
QB-08-05@12'	12.0	13	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-05@13.5'	13.5	14.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-06@7'	7.0	6.75	ND	ND	ND	ND	ND	0.220	0.240	0.460
QB-08-06@10'	10.0	9.75	ND	ND	ND	ND	ND	0.330	0.490	0.820
QB-08-06@13'	13.0	12.75	ND	ND	ND	ND	ND	0.068	0.140	0.208
QB-08-06@14'	14.0	13.75	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-07@1.5'	1.5	0.5	ND	ND	ND	ND	ND	0.058	0.072	0.130
QB-08-07@3.5'	3.5	2.5	ND	ND	ND	ND	ND	0.017	ND	0.017
QB-08-07@6.5'	6.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-07@10'	10.0	9	ND	ND	ND	ND	ND	0.023	ND	0.023
QB-08-07@11.5'	11.5	10.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-08@3'	3.0	3	ND	ND	ND	ND	ND	0.330	0.520	0.850



Table 1: November 2007 and February 2008 Soil Sample Results Summary

SAMPLE ID AND DEPTH	Depth (ft bgs)	Revised Depth <sup>(a)</sup> (ft bgs)	Aroclor							PCBs
			1016	1221	1232	1242	1248	1254	1260	(total) <sup>(b)</sup>
QB-08-08@5.5'	5.5	5.5	ND	ND	ND	ND	ND	ND	0.014	0.014
QB-08-08@8'	8.0	8	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-08@12'	12.0	12	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-08@14'	14.0	14	ND	ND	ND	ND	ND	0.260	0.420	0.680
QB-08-08@14.5'	14.5	14.5	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-09@3.5'	3.5	5.5	ND	ND	ND	ND	ND	0.390	0.580	0.970
QB-08-09@7.5'	7.5	9.5	ND	ND	ND	ND	ND	0.067	0.110	0.177
QB-08-09@8'	8.0	10	ND	ND	ND	ND	ND	1.100	1.800	2.900
QB-08-10@4.5'	4.5	8.5	ND	ND	ND	ND	ND	0.520	0.920	1.440
QB-08-10@7.5'	7.5	11.5	ND	ND	ND	ND	ND	0.440	0.780	1.220
QB-08-10@9'	9.0	13	ND	ND	ND	ND	ND	0.250	0.520	0.770
QB-08-10@11.5'	11.5	15.5	ND	ND	ND	ND	ND	0.220	0.160	0.380
QB-08-10@13'	13.0	17	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-11@2'	2.0	7	ND	ND	ND	ND	ND	0.620	0.860	1.480
QB-08-11@4'	4.0	9	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-11@5.5'	5.5	10.5	ND	ND	ND	ND	ND	1.500	2.600	4.100
QB-08-11@7'	7.0	12	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-11@10'	10.0	15	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-12@1'	1.0	6	ND	ND	ND	ND	ND	1.800	2.500	4.300
QB-08-12@3.5'	3.5	8.5	ND	ND	ND	ND	ND	0.170	0.400	0.570
QB-08-12@6'	6.0	11	ND	ND	ND	ND	ND	0.460	0.810	1.270
QB-08-12@6.5'	6.5	11.5	ND	ND	ND	ND	ND	0.250	0.360	0.610
QB-08-12@11'	11.0	16	ND	ND	ND	ND	ND	0.200	0.310	0.510
QB-08-12@13'	13.0	18	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-13@2'	2.0	2	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-13@3'	3.0	3	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-14@2'	2.0	5	ND	ND	ND	ND	ND	0.540	0.730	1.270
QB-08-14@5'	5.0	8	ND	ND	ND	ND	ND	0.200	0.240	0.440
QB-08-14@8'	8.0	11	ND	ND	ND	ND	ND	0.430	0.460	0.890
QB-08-14@11'	11.0	14	ND	ND	ND	ND	ND	0.240	0.290	0.530
QB-08-14@13'	13.0	16	ND	ND	ND	ND	ND	ND	ND	ND

**Notes:**

(a) Sample depth changes due to Site grading activities in 2012.

(b) Total concentration is the summation of the 7 PCBs reported in the laboratory reports for each sample, not including non-detectable results.

(c) Not Detected at or above the analytical method reporting limit reported for that isomer

Table 2: November 2007 and February 2008 Groundwater Sample Results Summary

SAMPLE ID	Aroclor							PCBs (total) <sup>(a)</sup>
	1016	1221	1232	1242	1248	1254	1260	
	Concentration (µg/L)							
QB-08-01 GW	ND <sup>(b)</sup>	ND	ND	ND	ND	ND	ND	ND
QB-08-02 GW	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-05 GW	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-06 GW	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-07 GW	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-08 GW	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-10 GW	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-12 GW	ND	ND	ND	ND	ND	ND	ND	ND
QB-08-14 GW	ND	ND	ND	ND	ND	ND	ND	ND

**Notes:**

- (a) Total concentration is the summation of the 7 PCBs reported in the laboratory reports for each sample, not including non-detectable results.
- (b) Not Detected at or above the analytical method reporting limit reported for that isomer

Table 3: Surface Sediment Sample Results Summary

SAMPLE ID AND DEPTH	Depth (ft bgs)	Revised Depth <sup>(a)</sup> (ft bgs)	Aroclor							PCBs (total <sup>(b)</sup> )
			1016	1221	1232	1242	1248	1254	1260	
			Concentration (mg/kg)							
Swale Sed-CL#3	0.3	0.3	ND <sup>(c)</sup>	ND	ND	ND	ND	0.450	0.650	1.100
SW-4-Surface	0.3	0.3	ND	ND	ND	ND	ND	0.390	0.420	0.810
SW-6-Surface	0.3	0.3	ND	ND	ND	ND	ND	0.050	0.051	0.101
SW-7-Surface	0.3	0.3	ND	ND	ND	ND	ND	0.036	0.056	0.092
SW-3-Surface	0.3	0.3	ND	ND	ND	ND	ND	0.027	0.031	0.058
SW-2-Surface	0.3	0.3	ND	ND	ND	ND	ND	0.012	0.013	0.025
SW-5-Surface	0.3	0.3	ND	ND	ND	ND	ND	ND	ND	ND

**Notes:**

(a) Sample depth changes due to Site grading activities in 2012.

(b) Total concentration is the summation of the 7 PCBs reported in the laboratory reports for each sample, not including non-detectable results.

(c) Not Detected at or above the analytical method reporting limit reported for that isomer

Table 4: Solubility Testing Sample Results Summary

SAMPLE ID AND DEPTH	Depth (ft bgs)	Revised Depth <sup>(a)</sup> (ft bgs)	Aroclor							PCBs	Description
			1016	1221	1232	1242	1248	1254.00	1260.00	(total) <sup>(b)</sup>	
			Concentration (mg/kg)								
SOL-1@9' STLC	9.0	11.8	ND <sup>(c)</sup>	ND	ND	ND	ND	ND	ND	ND	Crushed Concrete
G-78@9'* TTLC	9.0	11.5	ND	ND	ND	ND	ND	3.400	2.500	5.900	Crushed Concrete
SOL-2@9' STLC	9.0	11.8	ND	ND	ND	ND	ND	ND	ND	ND	Crushed Concrete
SOL-2@9' TTLC	9.0	11.8	ND	ND	ND	ND	ND	1.100	1.300	2.400	Crushed Concrete
SOL-3@3' STLC	3.0	3.0	ND	ND	ND	ND	ND	ND	ND	ND	Crushed Concrete with soil
SOL-3@3' TTLC	3.0	3.0	ND	ND	ND	ND	ND	0.760	0.560	1.320	Crushed Concrete with soil
SOL-4@3' STLC	3.0	2.5	ND	ND	ND	ND	ND	ND	ND	ND	Crushed Concrete with soil
SOL-4@3' TTLC	3.0	2.5	ND	ND	ND	ND	ND	1.100	0.980	2.080	Crushed Concrete with soil
SOL-5@9.5' STLC	9.5	9.5	ND	ND	ND	ND	ND	ND	ND	ND	Brown Sandy Clay
SOL-5@9.5' TTLC	9.5	9.5	ND	ND	ND	ND	ND	0.085	0.090	0.175	Brown Sandy Clay
SOL-6@4.5' STLC	4.5	4.5	ND	ND	ND	ND	ND	ND	ND	ND	Crushed Concrete with soil
SOL-6@4.5' TTLC	4.5	4.5	ND	ND	ND	ND	ND	0.240	0.370	0.710	Crushed Concrete with soil
SOL-7@7' STLC	7.0	7.0	ND	ND	ND	ND	ND	ND	ND	ND	Brown Sandy Clay
SOL-7@7' TTLC	7.0	7.0	ND	ND	ND	ND	ND	0.250	0.190	0.430	Brown Sandy Clay
SOL-8@3' STLC	3.0	4.0	ND	ND	ND	ND	ND	ND	ND	ND	Crushed Concrete
SOL-8@3' TTLC	3.0	4.0	ND	ND	ND	ND	ND	0.730	0.760	1.490	Crushed Concrete
SOL-9@3' STLC	3.0	5.0	ND	ND	ND	ND	ND	ND	ND	ND	Crushed Concrete
SOL-9@3' TTLC	3.0	5.0	ND	ND	ND	ND	ND	8.400	14.000	22.400	Crushed Concrete
QTP-08-03@2.0' WET	2.0	7.0	ND	ND	ND	ND	ND	ND	ND	ND	
QTP-08-10@2.5' WET	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	
QTP-08-11@28" (2.33') WET	2.3	2.3	ND	ND	ND	ND	ND	ND	ND	ND	
QTP-08-17@4.0' WET	4.0	5.9	ND	ND	ND	ND	ND	ND	ND	ND	
QTP-08-19@3.0' WET	3.0	3.0	ND	ND	ND	ND	ND	ND	ND	ND	
QTP-08-21@2.5' WET	2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	
QTP-08-24@20" (1.67') WET	1.7	1.7	ND	ND	ND	ND	ND	ND	ND	ND	
QB-08-02@12' WET	12.0	13.5	ND	ND	ND	ND	ND	ND	ND	ND	
QB-08-06@6.5' WET	6.5	6.2	ND	ND	ND	ND	ND	ND	ND	ND	
QB-08-07@7.5' WET	7.5	6.5	ND	ND	ND	ND	ND	ND	ND	ND	
QB-08-08@12' WET	12.0	12.0	ND	ND	ND	ND	ND	ND	ND	ND	
QB-08-13@3' WET	3.0	3.0	ND	ND	ND	ND	ND	ND	ND	ND	STLC Results

**Notes:**

(a) Sample depth changes due to Site grading activities in 2012.

(b) Total concentration is the summation of the 7 PCBs reported in the laboratory reports for each sample, not including non-detectable results.

(c) Not Detected at or above the analytical method reporting limit reported for that isomer

\*Sample collected from the same location on an earlier date.

ND = None Detected

All results in mg/kg

## Figures

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- Figure 1 – Site Location Map
- Figure 2 – Former Wastewater Treatment Plant Facilities
- Figure 3 – Cross-sections Illustrating Extent of Post-demolition Fill
- Figure 4 – Test Pit and Borehole Location Map
- Figure 5 – 2008 Solubility Sample Locations, Excavation Pit G
- Figure 6 – Site Topographic Map Before to May 2012 Grading Activities
- Figure 7 – Site Topographic Map After May 2012 Grading Activities
- Figure 8 – Cut/Fill Map Based on May 2012 Grading Activities
- Figure 9 – Location of Soil Samples exceeding TSCA Low Occupancy Threshold
- Figure 10 – Proposed Phase I Development Parking Area



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Source: EKI 2006

Notes:

1. All locations are approximate

**Kennedy/Jenks Consultants**

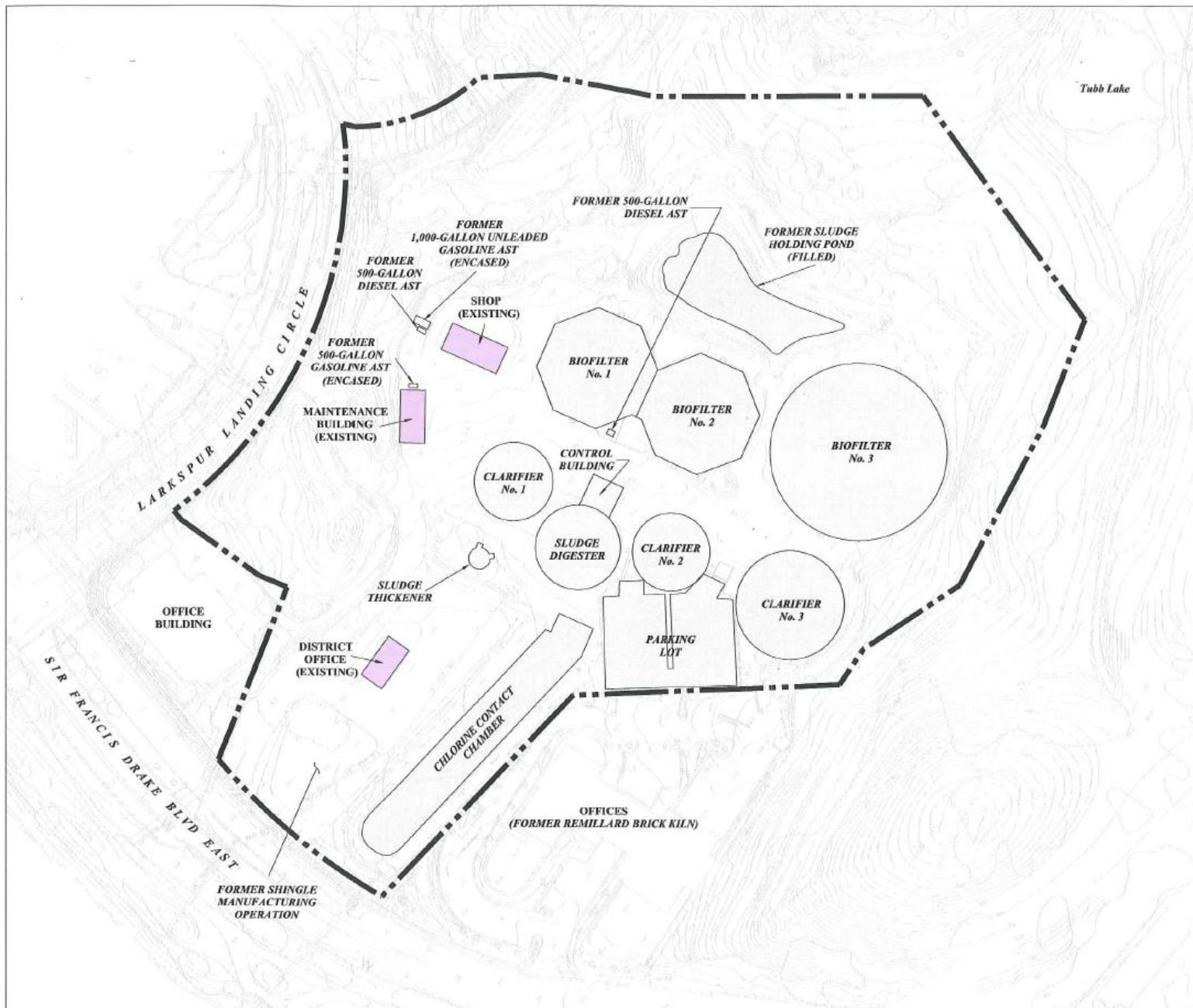
Former Larkspur Wastewater Treatment Plant Site  
2000 Larkspur Landing Circle, Larkspur, CA

**Site Location Map**

K/J 1365028\*00  
July 2014

**Figure 1**





Source: EKI 2006

**Notes:**

1. All locations are approximate.
2. Basemap source: Nate Engineering, San Rafael, California

**Abbreviations:**

AST = Above ground storage tank

**Legend:**

- Approximate Subject Property Boundary
- Former Site Features
- Existing Site Features

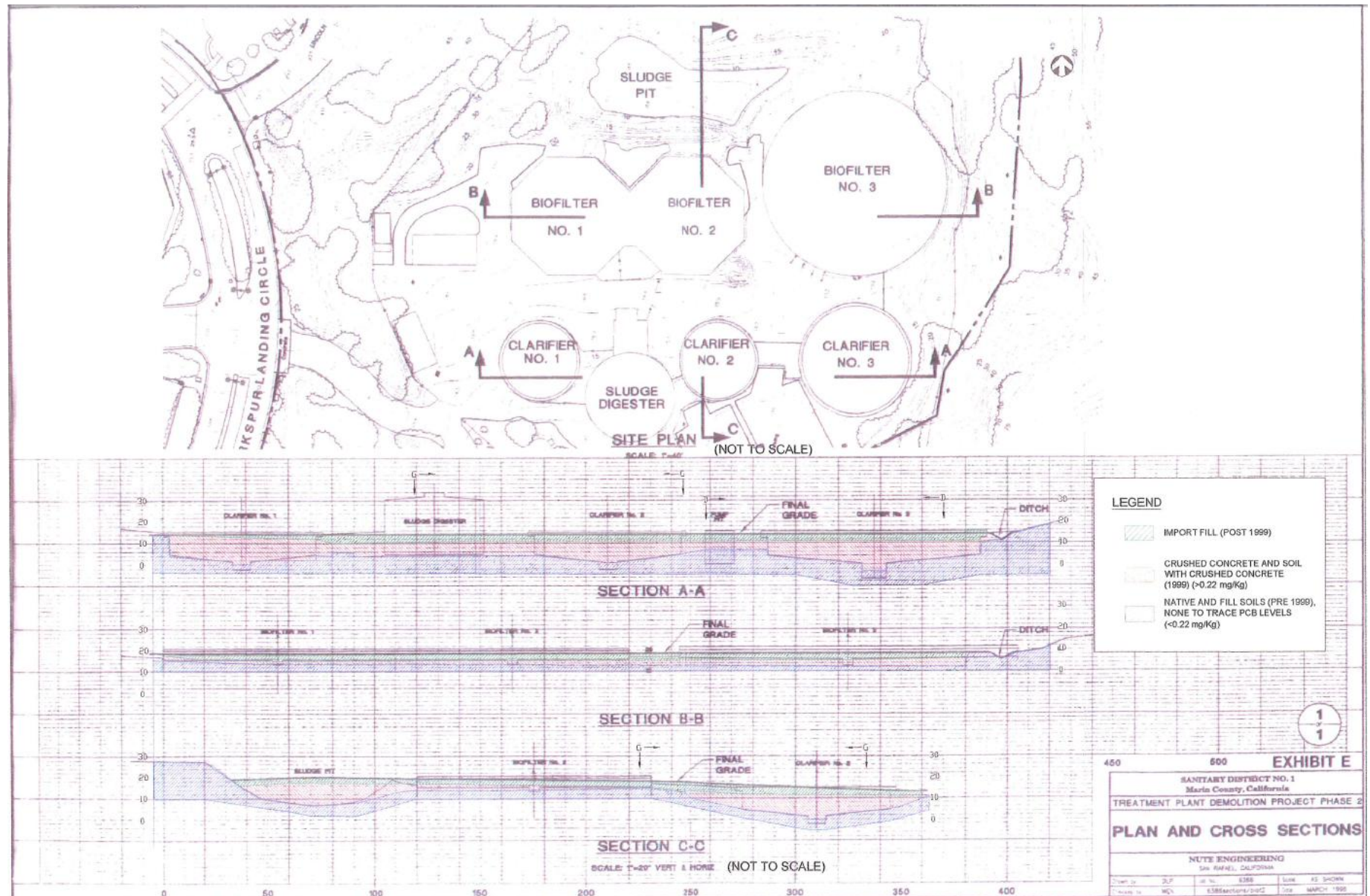
**Kennedy/Jenks Consultants**

Former Larkspur Wastewater Treatment Plant Site  
2000 Larkspur Landing Circle, Larkspur, CA  
**Former Wastewater Treatment Plant Facilities**

K/J 1365028\*00

July 2014

**Figure 2**

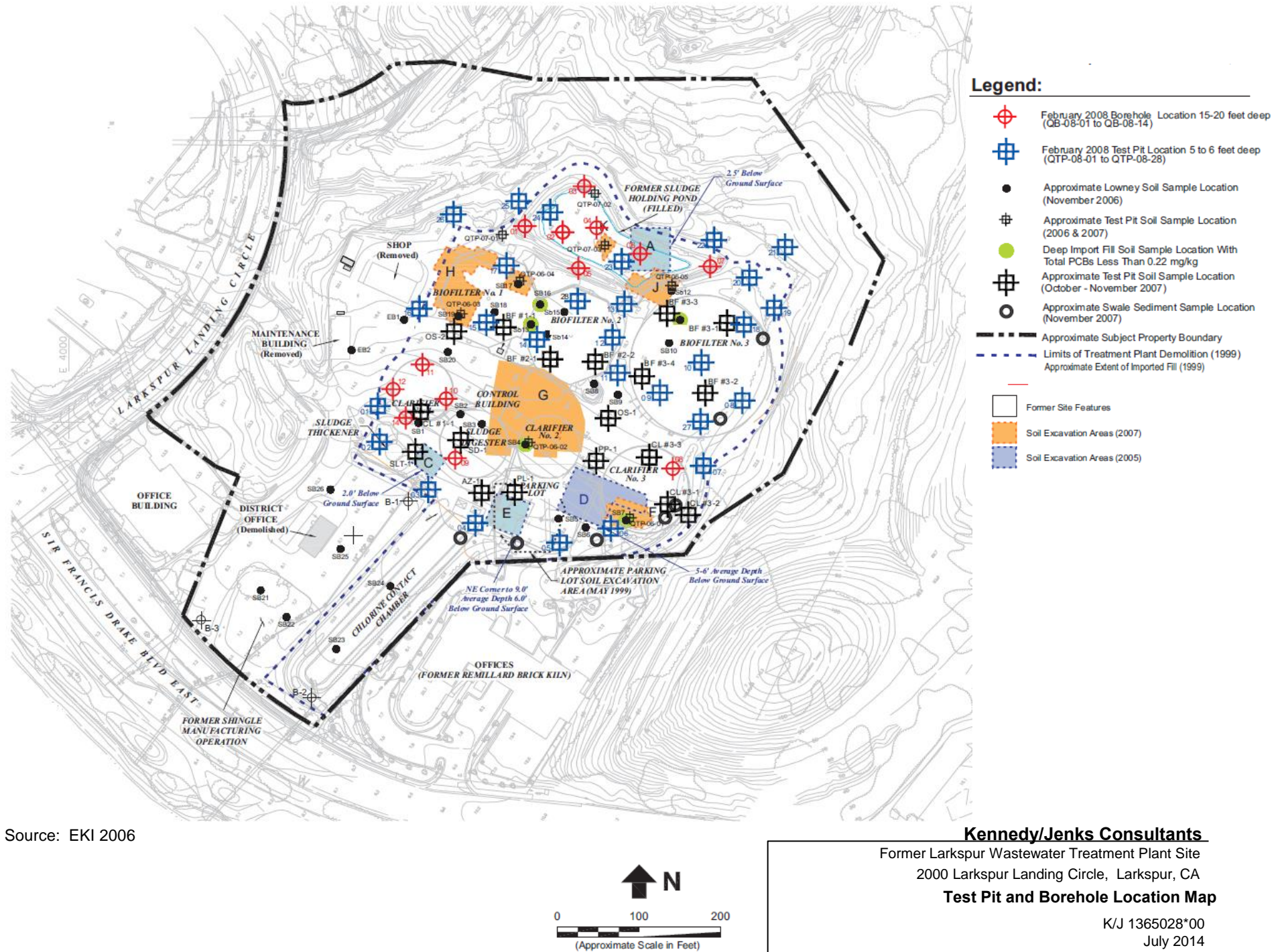


Source: EKI 2006

**Kennedy/Jenks Consultants**  
Former Larkspur Wastewater Treatment Plant Site  
2000 Larkspur Landing Circle, Larkspur, CA  
**Cross-sections Illustrating Extent of Post-demolition Fill**

K/J 1365028\*00  
July 2014  
**Figure 3**



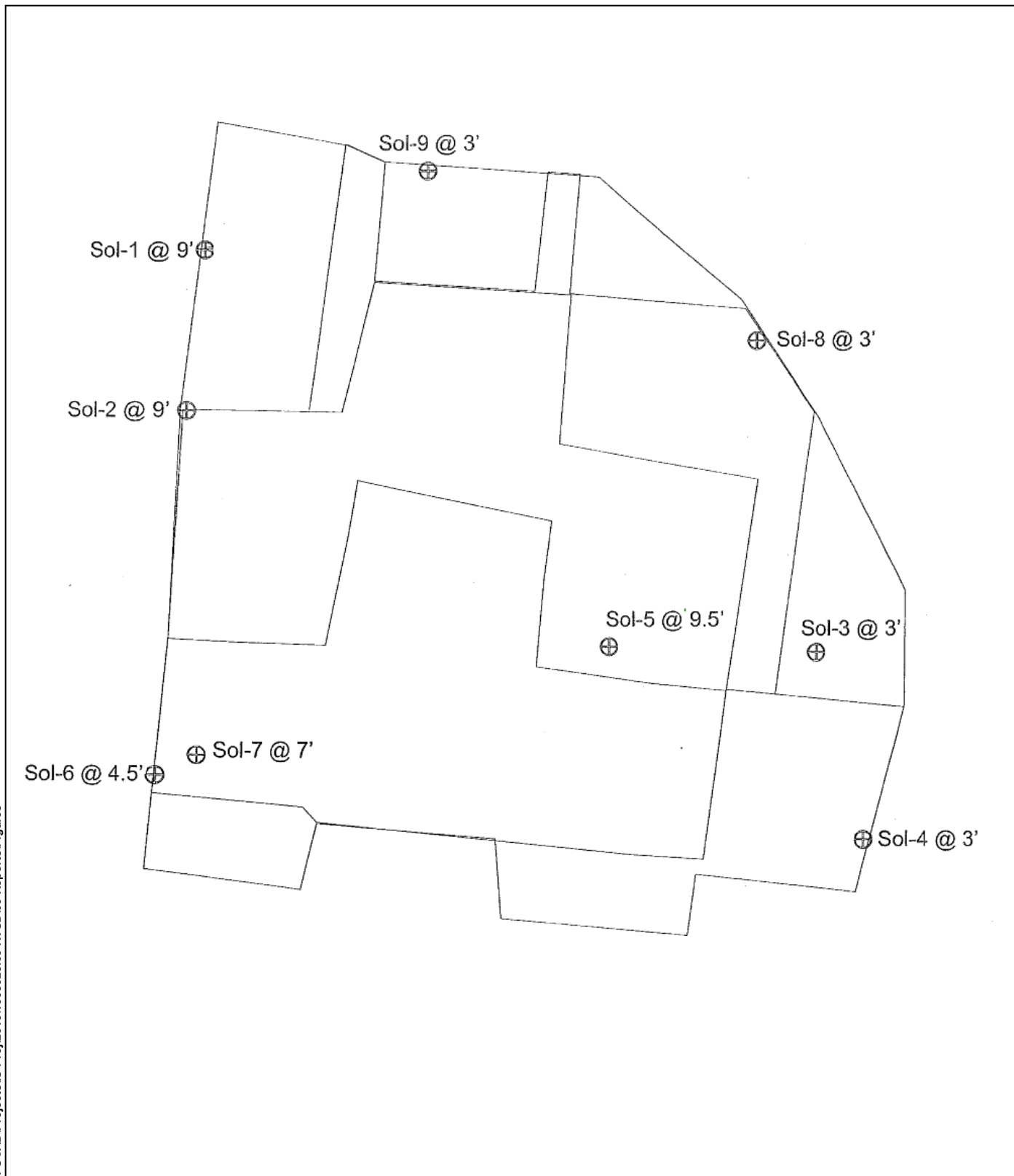


Source: EKI 2006

**Kennedy/Jenks Consultants**  
 Former Larkspur Wastewater Treatment Plant Site  
 2000 Larkspur Landing Circle, Larkspur, CA  
**Test Pit and Borehole Location Map**

K/J 1365028\*00  
 July 2014  
**Figure 4**

\\SFOCAD\Projects\IS-Proj\2013\1365028.00 RVSD\09 Reports\Figures



Source: Questa 2008

Notes:

1. All locations approximate and not necessarily to scale

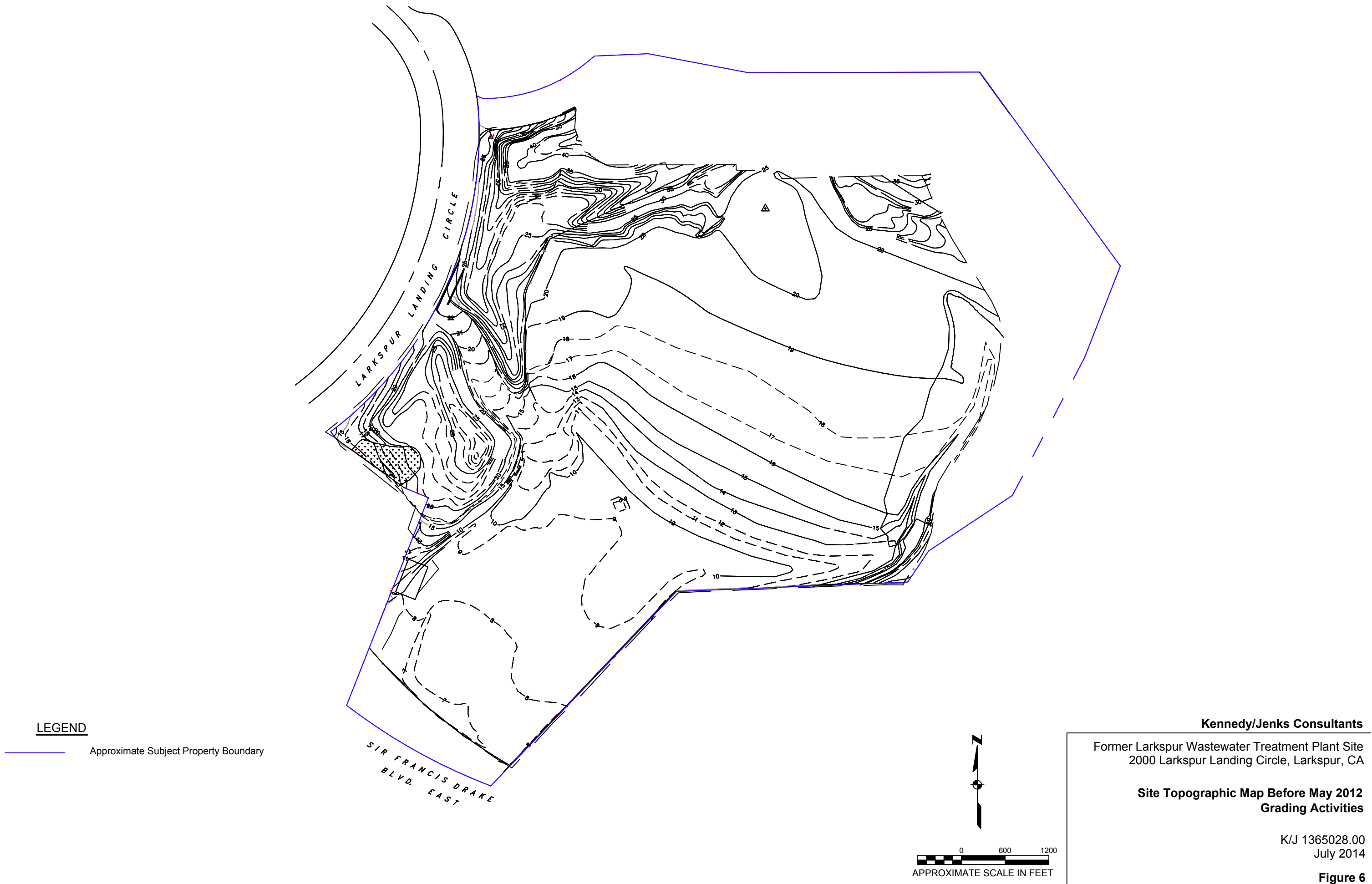
**Kennedy/Jenks Consultants**

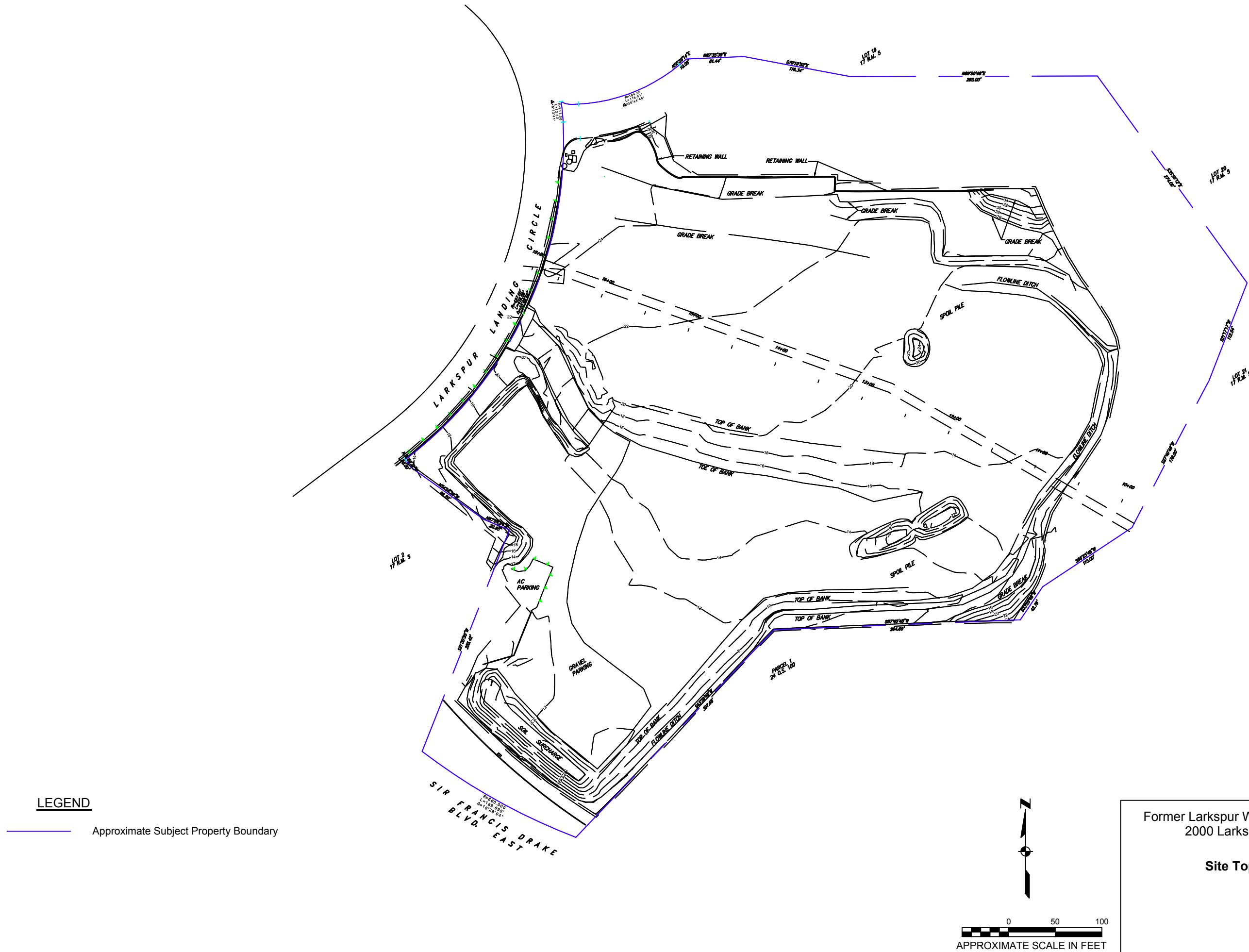
Former Larkspur Wastewater Treatment Plant Site  
2000 Larkspur Landing Circle, Larkspur, CA

**2008 Solubility Sample Locations  
Excavation Pit G**

K/J 1365028\*00  
July 2014

**Figure 5**





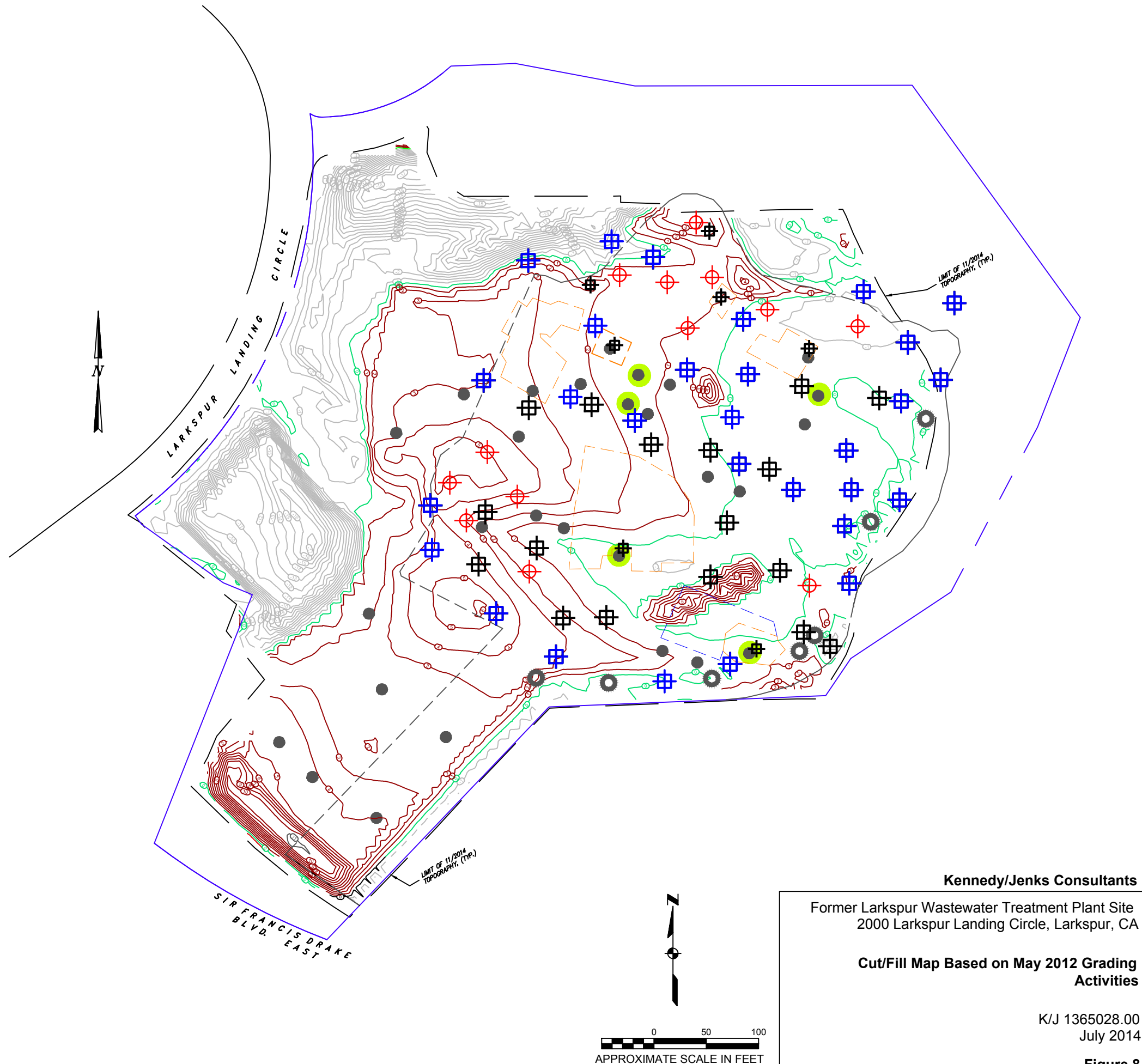
Kennedy/Jenks Consultants

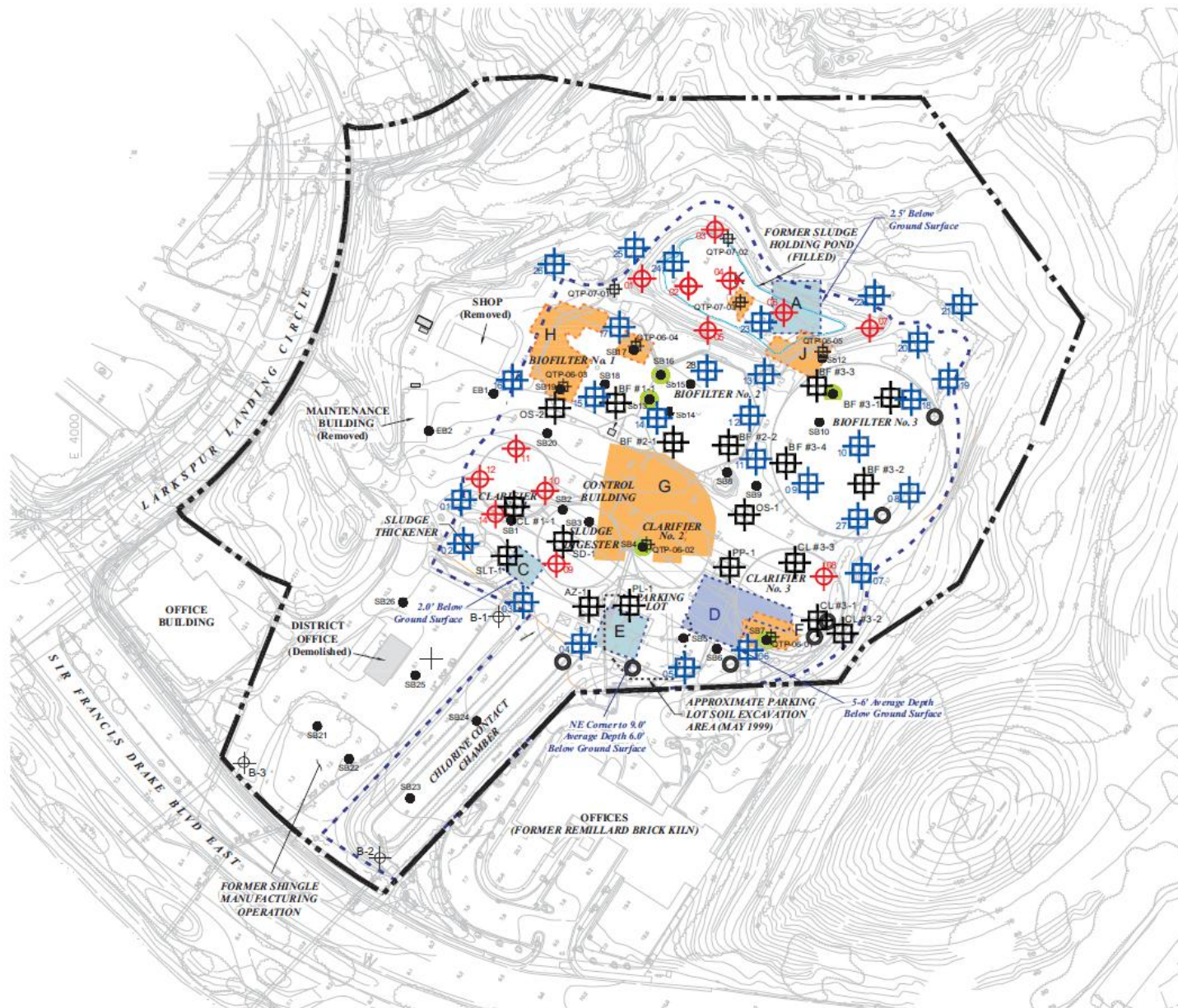
Former Larkspur Wastewater Treatment Plant Site  
2000 Larkspur Landing Circle, Larkspur, CA

**Site Topographic Map After May 2012  
Grading Activities**



- LEGEND**
- February 2008 Borehole Location 15-20 feet deep (QB-08-01 to QB-08-14)
  - February 2008 Test Pit Location 5 to 6 feet deep (QTP-08-01 to QB-08-28)
  - Approximate Lowney Soil Sample Location (November 2006)
  - Approximate Test Pit Soil Sample Location (2006 & 2007)
  - Deep Import Fill Soil Sample Location with Total PCBs less than 0.22 mg/kg
  - Approximate Test Pit Soil Sample Location (October - November 2007)
  - Approximate Swale Sediment Sample Location (November 2007)
  - Soil Excavation Areas (2007)
  - Soil Excavation Areas (2005)
  - Approximate Subject Property Boundary
  - Cut Change in Elevation
  - Fill Change in Elevation



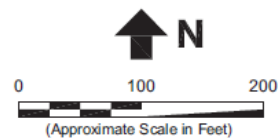


### Legend:

- February 2008 Borehole Location 15-20 feet deep (QB-08-01 to QB-08-14)
- February 2008 Test Pit Location 5 to 6 feet deep (QTP-08-01 to QTP-08-28)
- Approximate Lowney Soil Sample Location (November 2006)
- Approximate Test Pit Soil Sample Location (2006 & 2007)
- Deep Import Fill Soil Sample Location With Total PCBs Less Than 0.22 mg/kg
- Approximate Test Pit Soil Sample Location (October - November 2007)
- Approximate Swale Sediment Sample Location (November 2007)
- Approximate Subject Property Boundary
- Limits of Treatment Plant Demolition (1999)
- Approximate Extent of Imported Fill (1999)

- Former Site Features
- Soil Excavation Areas (2007)
- Soil Excavation Areas (2005)

Source: Questa 2008



### Kennedy/Jenks Consultants

Former Larkspur Wastewater Treatment Plant Site  
2000 Larkspur Landing Circle, Larkspur, CA

### Location of Soil Samples Exceeding TSCA Low Occupancy Threshold

K/J 1365028\*00  
July 2014

Figure 9



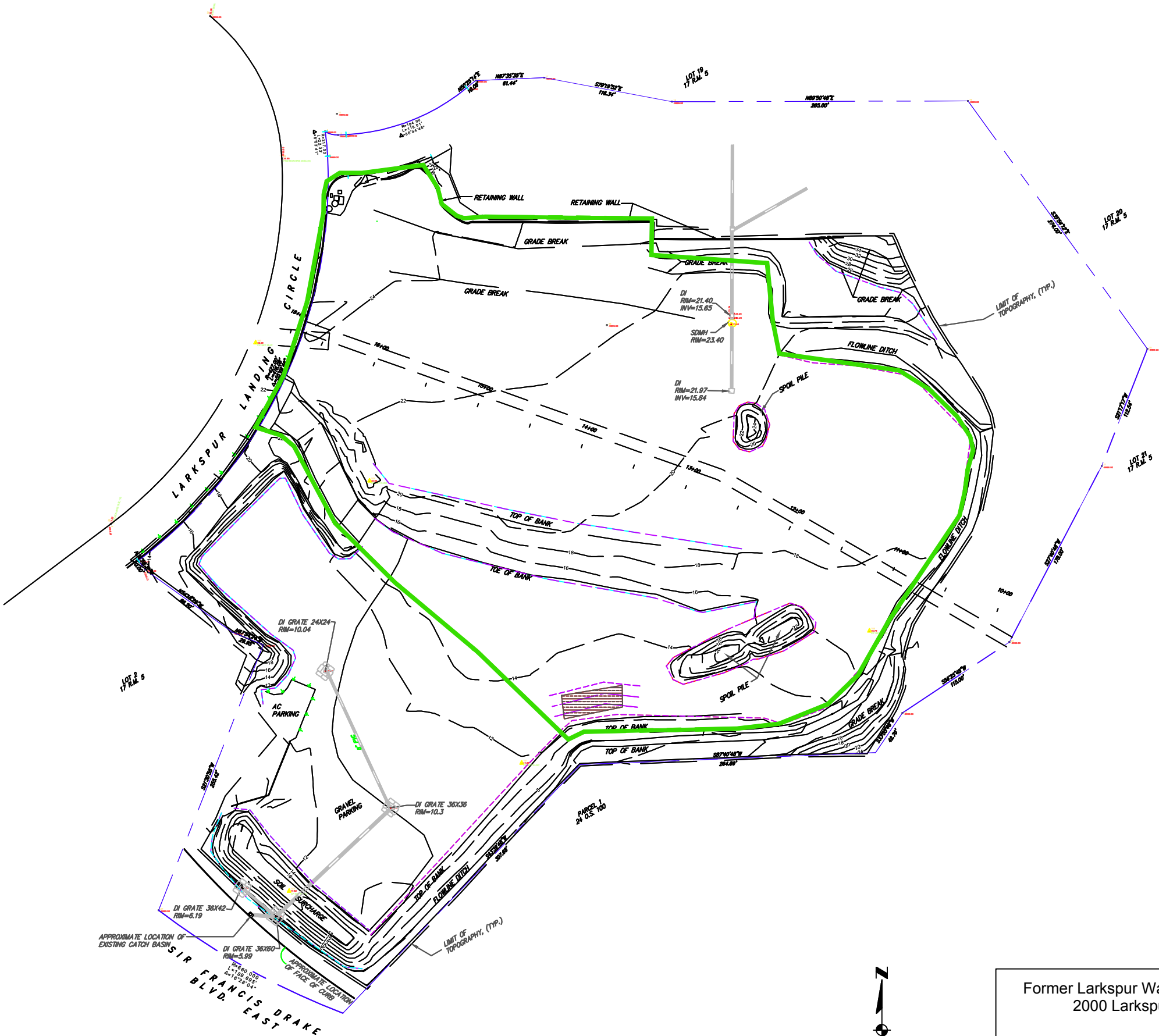
LEGEND

Sediment Runoff Control

Approximate Subject Property Boundary

Proposed Parking Area Boundary

Existing Storm Drain Culvert



050100

APPROXIMATE SCALE IN FEET

Kennedy/Jenks Consultants

Former Larkspur Wastewater Treatment Plant Site  
2000 Larkspur Landing Circle, Larkspur, CA

Proposed Phase I Development Parking Area

## Attachment A

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Laboratory Reports for Applicable Confirmation Soil Samples





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

Laboratory Job Number 199469  
ANALYTICAL REPORT


Questa Engineering Corporation	Project : 270025
1220 Brickyard Cove Road	Location : Former Larkspur Treatment Plant
Point Richmond, CA 94801	Level : II

<u>Sample ID</u>	<u>Lab ID</u>
SOL-1@9'	199469-001
SOL-2@9'	199469-002
SOL-3@3'	199469-003
SOL-4@3'	199469-004
SOL-5@9.5'	199469-005
SOL-6@4.5'	199469-006
SOL-7@7'	199469-007
SOL-8@3'	199469-008
SOL-9@3'	199469-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:   
Project Manager

Date: 12/10/2007

Signature:   
Operations Manager

Date: 12/10/2007

CASE NARRATIVE

Laboratory number: 199469  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 11/26/07  
Samples Received: 11/26/07

This hardcopy data package contains sample and QC results for nine soil samples, requested for the above referenced project on 11/26/07. The samples were received intact.

Polychlorinated Biphenyls (PCBs) (EPA 8082) Soil:

There was insufficient sample volume to do the TTLC PCB analysis on sample SOL-1@9' (199469-001). No analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082) WET Leachate:

No analytical problems were encountered.



Shaw Environmental and Infrastructure Inc.  
1230 Columbia St., Suite 1200  
San Diego, CA 92101

# CHAIN OF CUSTODY

Ref. Document # PL-100721-027

Page 1 of 1

Project Number: 100721  
Project Name: Point Loma ACO-001  
Project Location: GW Monitoring  
Purchase Order #: NAV 2976 2007  
Shipment Date: Nov 29 2007  
Waybill Number: 9207 4848 14-17  
Curtis & Tompkins, 2323 Fifth St.  
Lab Destination: Berkeley, CA 94710  
Lab Contact Name / ph. #: Anne Kathman 510-204-2225  
FedEX# 1114-4380-0

Send Report To: Rose Condit  
Phone/Fax Number: 925-288-2151  
Address: 4005 Port Chicago Hwy  
City: Concord, CA, 94520

Sampler's Name(s): Bill Rice

Sample ID	Location ID	Collection Information		Matrix	# of Containers	Preservative (water)	Analyses Requested										
		Date	Time				Method	Beginning Depth (ft)	Ending Depth (ft)	TPH-gasoline (EPA 8015B)	TPH-D and JP-5 (EPA 8015B)	Dissolved Cations (601B)	TDS (160.1)	Anions- NO <sub>3</sub> , Cl, SO <sub>4</sub> (300.0)	Carbonate/Bicarbonate	Cooler Temperature	
F5C-MW-12	F5C-MW-12	11/29/07	14:10	G	11	GW	11	11	X	X	X	X	X	X	X	X	X
10MW-03	10MW-03	11/29/07	13:40	G	11	GW	11	11	X	X	X	X	X	X	X	X	X
FNNW-01	FNNW-01	11/29/07	13:55	G	11	GW	11	11	X	X	X	X	X	X	X	X	X
10MW-10	10MW-10	11/29/07	16:00	G	11	GW	11	11	X	X	X	X	X	X	X	X	X
FNNW-02	FNNW-02	11/29/07	15:00	G	11	GW	11	11	X	X	X	X	X	X	X	X	X
T5B-MW-05	T5B-MW-05	11/29/07	14:30	G	11	GW	11	11	X	X	X	X	X	X	X	X	X
Temp Blank	Temp Blank	11/29/07	-		1	BW	1	1	X	X	X	X	X	X	X	X	X

Special Instructions: Level 2 Report \* List of Cations - Fe, Na, K, Mn, Mg, Ca, Al

Level 1 QC Required: ☐ 24-hr ☐ 48-hr ☐ 5-day

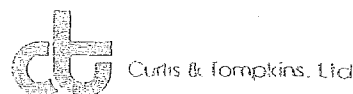
Standard TAT - 10day

Relinquished By: [Signature] Date: 11/29/07 Time: 17:13

Relinquished By: [Signature] Date: 12-3-07 Time: 10:10

Method Codes: C = Composite, M = Matrix, DW = Drinking Water, GW = Ground Water, WW = Waste Water

SOP Volume Client Services  
Section 112  
Page 1 of 1  
Effective Date 08-Aug-07  
Revision 3 Number 1 of 3  
Filename: FAQC\Forms\QC\Cooler.wpd



## COOLER RECEIPT CHECKLIST

Login#: 1991603 Date Received: 12-3-07 Number of Coolers: 3  
Client: Shaw Project: Point Loma ACO-001

### A. Preliminary Examination Phase

Date Opened: 12-3-07 By (print): Faith Nichols (signature: Faith Nichols)

1. Did cooler come with a shipping slip (airbill, etc.)? YES NO  
If YES, enter carrier name and airbill number: Fed Ex 8627 9848 6472
2. Were custody seals on outside of cooler? YES NO  
How many and where? \_\_\_\_\_ Seal date: \_\_\_\_\_ Seal name: \_\_\_\_\_
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO N/A
4. Were custody papers dry and intact when received? YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? YES NO
6. Did you sign the custody papers in the appropriate place? YES NO
7. Was project identifiable from custody papers? YES NO  
If YES, enter project name at the top of this form.
8. Describe type of packing in cooler: Bubble wrap, Ziploc bags
9. If required, was sufficient ice used? Samples should be  $\leq 6$  degrees C. YES NO  
Type of ice: Wet Temperature: 3°C, 10.5°C, 2.5°C
10. Were Encore sampling devices present in the cooler? YES NO  
If YES, enter time they were transferred to the freezer \_\_\_\_\_

### B. Login Phase

Date Logged In: 12-3-07 By (print): Faith Nichols (signature: Faith Nichols)

1. Did all bottles arrive unbroken? YES NO
2. Were labels in good condition and complete (ID, date, time, signature, etc.)? YES NO
3. Did bottle labels agree with custody papers? YES NO\*
4. Were appropriate containers used for the tests indicated? YES NO
5. Were correct preservatives added to samples? YES NO
6. Was sufficient amount of sample sent for tests indicated? YES NO
7. Were bubbles absent in VOA samples? If NO, list sample IDs below. YES NO
8. Was the client contacted concerning this sample delivery? YES NO

If YES, give details below.

Who was called? \_\_\_\_\_ By whom? \_\_\_\_\_ Date: \_\_\_\_\_

### Additional Comments:

\* Analyze Nitrile post hold - per R/F - AMK 12/03/07

① One cooler was received out of temp, there was no notation as to which sample containers were in the cooler that was out of spec. AMK 12/3/07

\* COC states that each sample has 11 bottles; only 10 came in cooler; Sample FNWMW02 20071129 has 11 containers

## Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/26/07
Units:	ug/Kg	Received:	11/26/07
Basis:	as received	Prepared:	11/29/07
Batch#:	132185		

Field ID:	SOL-2@9'	Diln Fac:	2.000
Type:	SAMPLE	Analyzed:	11/30/07
Lab ID:	199469-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	16
Aroclor-1221	ND	33
Aroclor-1232	ND	16
Aroclor-1242	ND	16
Aroclor-1248	ND	16
Aroclor-1254	1,100	16
Aroclor-1260	1,300	16

Surrogate	%REC	Limits
TCMX	73	66-140
Decachlorobiphenyl	80	51-152

Field ID:	SOL-3@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/30/07
Lab ID:	199469-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	760	12
Aroclor-1260	560	12

Surrogate	%REC	Limits
TCMX	85	66-140
Decachlorobiphenyl	83	51-152

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

Polychlorinated Biphenyls (PCBs)			
Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/26/07
Units:	ug/Kg	Received:	11/26/07
Basis:	as received	Prepared:	11/29/07
Batch#:	132185		

Field ID: SOL-4@3' Diln Fac: 2.000  
 Type: SAMPLE Analyzed: 11/30/07  
 Lab ID: 199469-004 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	17
Aroclor-1221	ND	33
Aroclor-1232	ND	17
Aroclor-1242	ND	17
Aroclor-1248	ND	17
Aroclor-1254	1,100	17
Aroclor-1260	980	17

Surrogate	%REC	Limits
TCMX	76	66-140
Decachlorobiphenyl	70	51-152

Field ID: SOL-5@9.5' Diln Fac: 1.000  
 Type: SAMPLE Analyzed: 11/30/07  
 Lab ID: 199469-005 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	85	12
Aroclor-1260	90	12

Surrogate	%REC	Limits
TCMX	87	66-140
Decachlorobiphenyl	74	51-152

DO= Diluted Out  
 ND= Not Detected  
 L= Reporting Limit  
 ge 2 of 5

Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/26/07
Units:	ug/Kg	Received:	11/26/07
Basis:	as received	Prepared:	11/29/07
Batch#:	132185		

Field ID: SOL-6@4.5' Diln Fac: 1.000  
 Type: SAMPLE Analyzed: 11/30/07  
 Lab ID: 199469-006 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	240	12
Aroclor-1260	370	12

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	80	51-152

Field ID: SOL-7@7' Diln Fac: 1.000  
 Type: SAMPLE Analyzed: 12/01/07  
 Lab ID: 199469-007 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	250	12
Aroclor-1260	190	12

Surrogate	%REC	Limits
TCMX	84	66-140
Decachlorobiphenyl	75	51-152

DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

# Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/26/07
Units:	ug/Kg	Received:	11/26/07
Basis:	as received	Prepared:	11/29/07
Batch#:	132185		

Field ID: SOL-8@3' Diln Fac: 2.000  
 Type: SAMPLE Analyzed: 12/01/07  
 Lab ID: 199469-008 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	17
Aroclor-1221	ND	33
Aroclor-1232	ND	17
Aroclor-1242	ND	17
Aroclor-1248	ND	17
Aroclor-1254	730	17
Aroclor-1260	760	17

Surrogate	%REC	Limits
TCMX	87	66-140
Decachlorobiphenyl	96	51-152

Field ID: SOL-9@3' Diln Fac: 20.00  
 Type: SAMPLE Analyzed: 12/03/07  
 Lab ID: 199469-009 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	170
Aroclor-1221	ND	330
Aroclor-1232	ND	170
Aroclor-1242	ND	170
Aroclor-1248	ND	170
Aroclor-1254	8,400	170
Aroclor-1260	14,000	170

Surrogate	%REC	Limits
TCMX	DO	66-140
Decachlorobiphenyl	DO	51-152

LO= Diluted Out  
 ND= Not Detected  
 L= Reporting Limit



Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/26/07
Units:	ug/Kg	Received:	11/26/07
Basis:	as received	Prepared:	11/29/07
Batch#:	132185		

Type:	BLANK	Analyzed:	11/29/07
Lab ID:	QC417314	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limite
TCMX	97	66-140
Decachlorobiphenyl	112	51-152

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

## Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC417315	Batch#:	132185
Matrix:	Soil	Prepared:	11/29/07
Units:	ug/Kg	Analyzed:	11/29/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.5	195.0	118	69-142
Aroclor-1260	165.5	157.7	95	69-155

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	102	51-152

## Batch QC Report

## Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	132185
MSS Lab ID:	199526-001	Sampled:	11/28/07
Matrix:	Soil	Received:	11/28/07
Units:	ug/Kg	Prepared:	11/29/07
Basis:	as received	Analyzed:	11/30/07
Diln Fac:	1.000		

Type: MS  
Lab ID: QC417316

Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.874	165.8	188.0	113	62-139
Aroclor-1260	21.67	165.8	163.8	86	54-143

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	96	51-152

Type: MSD  
Lab ID: QC417317

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.9	189.8	114	62-139	1	33
Aroclor-1260	165.9	175.1	92	54-143	7	34

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	109	51-152

RPD= Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	270025	Analysis:	EPA 8082
Units:	ug/L	Sampled:	11/26/07
Diln Fac:	1.000	Received:	11/26/07
Batch#:	132234	Prepared:	11/29/07

Field ID: SOL-1@9' Matrix: WET Leachate  
 Type: SAMPLE Analyzed: 12/01/07  
 Lab ID: 199469-001 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	78	54-128
Decachlorobiphenyl	68	25-122

Field ID: SOL-2@9' Matrix: WET Leachate  
 Type: SAMPLE Analyzed: 12/01/07  
 Lab ID: 199469-002 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	81	54-128
Decachlorobiphenyl	69	25-122

Field ID: SOL-3@3' Matrix: WET Leachate  
 Type: SAMPLE Analyzed: 12/01/07  
 Lab ID: 199469-003 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	77	54-128
Decachlorobiphenyl	76	25-122

ND= Not Detected  
 L= Reporting Limit  
 Page 1 of 4

Polyhalogenated Biphenyls (PHCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	270025	Analysis:	EPA 8082
Units:	ug/L	Sampled:	11/26/07
Diln Fac:	1.000	Received:	11/26/07
Batch#:	132234	Prepared:	11/29/07

Field ID: SOL-4@3' Matrix: WET Leachate  
 Type: SAMPLE Analyzed: 12/01/07  
 Lab ID: 199469-004 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	82	54-128
Decachlorobiphenyl	76	25-122

Field ID: SOL-5@9.5' Matrix: WET Leachate  
 Type: SAMPLE Analyzed: 12/01/07  
 Lab ID: 199469-005 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	85	54-128
Decachlorobiphenyl	61	25-122

Field ID: SOL-6@4.5' Matrix: WET Leachate  
 Type: SAMPLE Analyzed: 12/01/07  
 Lab ID: 199469-006 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	80	54-128
Decachlorobiphenyl	59	25-122

ND= Not Detected  
 RL= Reporting Limit

Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	270025	Analysis:	EPA 8082
Units:	ug/L	Sampled:	11/26/07
Diln Fac:	1.000	Received:	11/26/07
Batch#:	132234	Prepared:	11/29/07

Field ID: SOL-7@7'  
 Type: SAMPLE  
 Lab ID: 199469-007  
 Matrix: WET Leachate  
 Analyzed: 12/01/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	83	54-128
Decachlorobiphenyl	78	25-122

Field ID: SOL-8@3'  
 Type: SAMPLE  
 Lab ID: 199469-008  
 Matrix: WET Leachate  
 Analyzed: 12/01/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	87	54-128
Decachlorobiphenyl	78	25-122

Field ID: SOL-9@3'  
 Type: SAMPLE  
 Lab ID: 199469-009  
 Matrix: WET Leachate  
 Analyzed: 12/01/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	79	54-128
Decachlorobiphenyl	62	25-122

ND= Not Detected  
 L= Reporting Limit  
 Page 3 of 4

Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	270025	Analysis:	EPA 8082
Units:	ug/L	Sampled:	11/26/07
Diln Fac:	1.000	Received:	11/26/07
Batch#:	132234	Prepared:	11/29/07

Type: BLANK  
 Lab ID: QC417507  
 Matrix: Water  
 Analyzed: 11/30/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	85	54-128
Decachlorobiphenyl	55	25-122

ND= Not Detected  
 RL= Reporting Limit



# Batch QC Report

## Polychlorinated Biphenyls (PCBs)

Lab #:	199469	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	270025	Analysis:	EPA 8082
Matrix:	Water	Batch#:	132234
Units:	ug/L	Prepared:	11/29/07
Diln Fac:	1.000		

Type: BS Analyzed: 11/30/07  
 Lab ID: QC417508 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	5.000	4.859	97	71-140
Aroclor-1260	5.000	5.076	102	68-150

Surrogate	%REC	Limits
TCMX	94	54-128
Decachlorobiphenyl	55	25-122

Type: BSD Analyzed: 12/01/07  
 Lab ID: QC417509 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	5.000	4.484	90	71-140	8	21
Aroclor-1260	5.000	4.683	94	68-150	8	27

Surrogate	%REC	Limits
TCMX	85	54-128
Decachlorobiphenyl	69	25-122

PD= Relative Percent Difference



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 485-0900

Laboratory Job Number 199188  
ANALYTICAL REPORT

Questa Engineering Corporation	Project : 270025
1220 Brickyard Cove Road	Location : Former Larkspur Treatment Plant
Point Richmond, CA 94801	Level : II

Sample ID  
SWALE

Lab ID  
199188-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:   
Project Manager

Date: 11/16/2007

Signature:   
Operations Manager

Date: 11/19/2007



# CASE NARRATIVE

Laboratory number: 199188  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 11/12/07  
Samples Received: 11/12/07

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 11/12/07. The sample was received on ice and intact.

## Polychlorinated Biphenyls (PCBs) (EPA 8082):

Matrix spikes were not reported for this analysis because the parent sample required a dilution that would have diluted out the spikes. No analytical problems were encountered.

**CURTIS & TOMPKINS, LTD. BERKELEY**

Reason for change:     x     Client Request      By:     M. Feliciano     Date/Time:     11/12/07 21:01     Initials:     SES      
     Login Review      Data Review     

[illegible]

**Curtis & Tompkins, Ltd.**  
Analytical Laboratory Since 1878  
2323 Fifth Street  
Berkeley, CA 94710  
(510) 486-0900 Phone  
(510) 486-0532 Fax

## Analysis

1971

Fax

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative				
			Soil	Water	Waste		HCL	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	ICE	
-1	SWALE	11/12/07	X			1					
-2	G83 @ 11.5'	11/12/07	X			1					
-3	G84 @ 10.5'	11/12/07	X			1					
		</									

Notes:

Direct from field NDJ 11



## Polychlorinated Biphenyls (PCBs)

Lab #:	199188	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	SWALE	Batch#:	131734
Matrix:	Soil	Sampled:	11/12/07
Units:	ug/Kg	Received:	11/12/07
Basis:	as received	Prepared:	11/14/07
Diln Fac:	1.000	Analyzed:	11/15/07

Type: SAMPLE Cleanup Method: EPA 3665A  
Lab ID: 199188-001

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	450	12
Aroclor-1260	650	12

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	88	51-152

Type: BLANK Cleanup Method: EPA 3665A  
Lab ID: QC415437

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	88	51-152

ND= Not Detected

L= Reporting Limit

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	199188	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC415438	Batch#:	131734
Matrix:	Soil	Prepared:	11/14/07
Units:	ug/Kg	Analyzed:	11/15/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.2	133.9	81	69-142
Aroclor-1260	166.2	167.4	101	69-155

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	90	51-152





# CASE NARRATIVE

Laboratory number: 199470  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 11/26/07  
Samples Received: 11/26/07

This hardcopy data package contains sample and QC results for six soil samples, requested for the above referenced project on 11/26/07. The samples were received intact.

## Polychlorinated Biphenyls (PCBs) (EPA 8082):

No analytical problems were encountered.



## Polychlorinated Biphenyls (PCBs)

Lab #:	199470	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	132185
Units:	ug/Kg	Sampled:	11/26/07
Basis:	as received	Received:	11/26/07
Diln Fac:	1.000	Prepared:	11/29/07

Field ID: SW-2-SURFACE  
Type: SAMPLE  
Lab ID: 199470-001

Analyzed: 11/30/07  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	13	12
Aroclor-1260	12	12

Surrogate	%REC	Limits
TCMX	90	66-140
Decachlorobiphenyl	85	51-152

Field ID: SW-3-SURFACE  
Type: SAMPLE  
Lab ID: 199470-002

Analyzed: 11/30/07  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	27	12
Aroclor-1260	31	12

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	92	51-152

Field ID: SW-4-SURFACE  
Type: SAMPLE  
Lab ID: 199470-003

Analyzed: 11/30/07  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	390	12
Aroclor-1260	420	12

Surrogate	%REC	Limits
TCMX	93	66-140
Decachlorobiphenyl	87	51-152

ND= Not Detected  
RL= Reporting Limit



## Polychlorinated Biphenyls (PCBs)

Lab #:	199470	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	132185
Units:	ug/Kg	Sampled:	11/26/07
Basis:	as received	Received:	11/26/07
Diln Fac:	1.000	Prepared:	11/29/07

Field ID: SW-5-SURFACE  
 Type: SAMPLE  
 Lab ID: 199470-004

Analyzed: 11/30/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	93	51-152

Field ID: SW-6-SURFACE  
 Type: SAMPLE  
 Lab ID: 199470-005

Analyzed: 11/30/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	50	12
Aroclor-1260	51	12

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	82	51-152

Field ID: SW-7-SURFACE  
 Type: SAMPLE  
 Lab ID: 199470-006

Analyzed: 11/30/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	36	12
Aroclor-1260	56	12

Surrogate	%REC	Limits
TCMX	94	66-140
Decachlorobiphenyl	91	51-152

ND= Not Detected  
 RL= Reporting Limit



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## Polychlorinated Biphenyls (PCBs)

Lab #:	199470	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	132185
Units:	ug/Kg	Sampled:	11/26/07
Basis:	as received	Received:	11/26/07
Diln Fac:	1.000	Prepared:	11/29/07

Type: BLANK  
Lab ID: QC417314

Analyzed: 11/29/07  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	112	51-152



## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	199470	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC417315	Batch#:	132185
Matrix:	Soil	Prepared:	11/29/07
Units:	ug/Kg	Analyzed:	11/29/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.5	195.0	118	69-142
Aroclor-1260	165.5	157.7	95	69-155

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	102	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	199470	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	132185
MSS Lab ID:	199526-001	Sampled:	11/28/07
Matrix:	Soil	Received:	11/28/07
Units:	ug/Kg	Prepared:	11/29/07
Basis:	as received	Analyzed:	11/30/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC417316

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.874	165.8	188.0	113	62-139
Aroclor-1260	21.67	165.8	163.8	86	54-143

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	96	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC417317

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.9	189.8	114	62-139	1	33
Aroclor-1260	165.9	175.1	92	54-143	7	34

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	109	51-152

RPD= Relative Percent Difference

### Total Extractable Hydrocarbons

Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/14/07
Units:	mg/Kg	Received:	05/14/07
Basis:	as received	Prepared:	05/15/07
Batch#:	125204	Analyzed:	05/16/07

Field ID:	I1N@1.0'	Lab ID:	194786-006
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL
Diesel C10-C24	15 H q	1.0
Motor Oil C24-C36	31 L q	5.0

Surrogate	%REC	Limits
Hexacosane	108 q	40-127

Field ID:	I2S@1.0'	Lab ID:	194786-007
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL
Diesel C10-C24	14 H q	1.0
Motor Oil C24-C36	31 L q	5.0

Surrogate	%REC	Limits
Hexacosane	109 q	40-127

Field ID:	I3E@1.0'	Lab ID:	194786-008
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL
Diesel C10-C24	8.7 H q	1.0
Motor Oil C24-C36	44 L q	5.0

Surrogate	%REC	Limits
Hexacosane	92 q	40-127

H= Heavier hydrocarbons contributed to the quantitation

L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

q= Draft result - ending instrument QC not yet analyzed

ND= Not Detected

RL= Reporting Limit



### Total Extractable Hydrocarbons

Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/14/07
Units:	mg/Kg	Received:	05/14/07
Basis:	as received	Prepared:	05/15/07
Batch#:	125204	Analyzed:	05/16/07

Field ID:	I4W@1.0'	Lab ID:	194786-009
Type:	SAMPLE	Diln Fac:	5.000

Analyte	Result	RL
Diesel C10-C24	410 H Y q	5.0
Motor Oil C24-C36	1,100 L q	25

Surrogate	%REC	Limits
Hexacosane	105 q	40-127

Field ID:	I5B@2.0'	Lab ID:	194786-010
Type:	SAMPLE	Diln Fac:	5.000

Analyte	Result	RL
Diesel C10-C24	99 H Y q	5.0
Motor Oil C24-C36	400 L q	25

Surrogate	%REC	Limits
Hexacosane	96 q	40-127

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC387830		

Analyte	Result	RL
Diesel C10-C24	ND q	1.0
Motor Oil C24-C36	ND q	5.0

Surrogate	%REC	Limits
Hexacosane	93 q	40-127

H= Heavier hydrocarbons contributed to the quantitation  
 L= Lighter hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 q= Draft result - ending instrument QC not yet analyzed  
 ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC387831	Batch#:	125204
Matrix:	Soil	Prepared:	05/15/07
Units:	mg/Kg	Analyzed:	05/15/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.93	43.26	87	58-127

Surrogate	%REC	Limits
Hexacosane	101	40-127

## Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	125204
MSS Lab ID:	194647-009	Sampled:	05/07/07
Matrix:	Soil	Received:	05/08/07
Units:	mg/Kg	Prepared:	05/15/07
Basis:	as received	Analyzed:	05/15/07
Diln Fac:	1.000		

Type: MS  
 Lab ID: QC387832

Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	9.271	49.93	52.27	86	29-147

Surrogate	%REC	Limits
Hexacosane	90	40-127

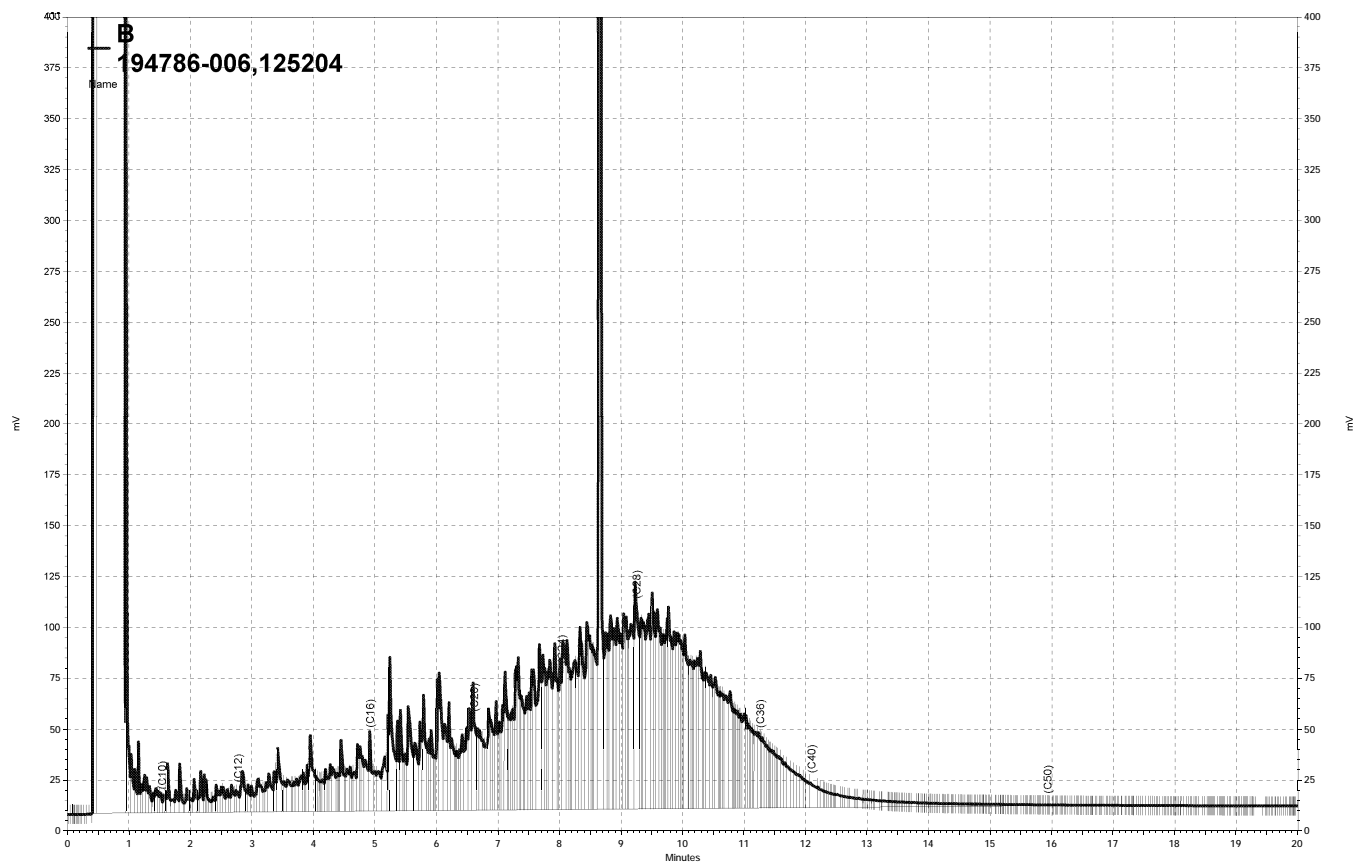
Type: MSD  
 Lab ID: QC387833

Cleanup Method: EPA 3630C

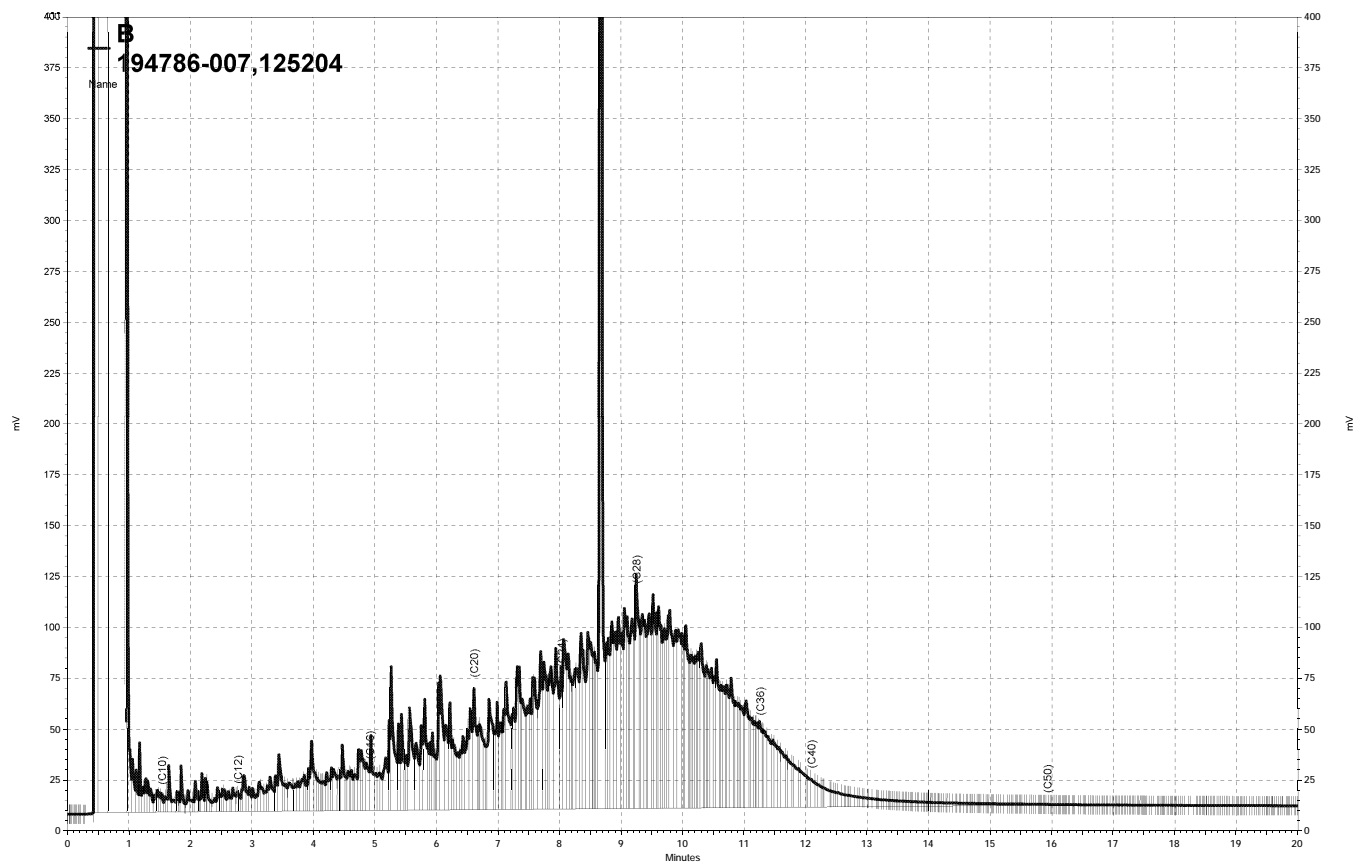
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.93	56.00	94	29-147	7	46

Surrogate	%REC	Limits
Hexacosane	100	40-127

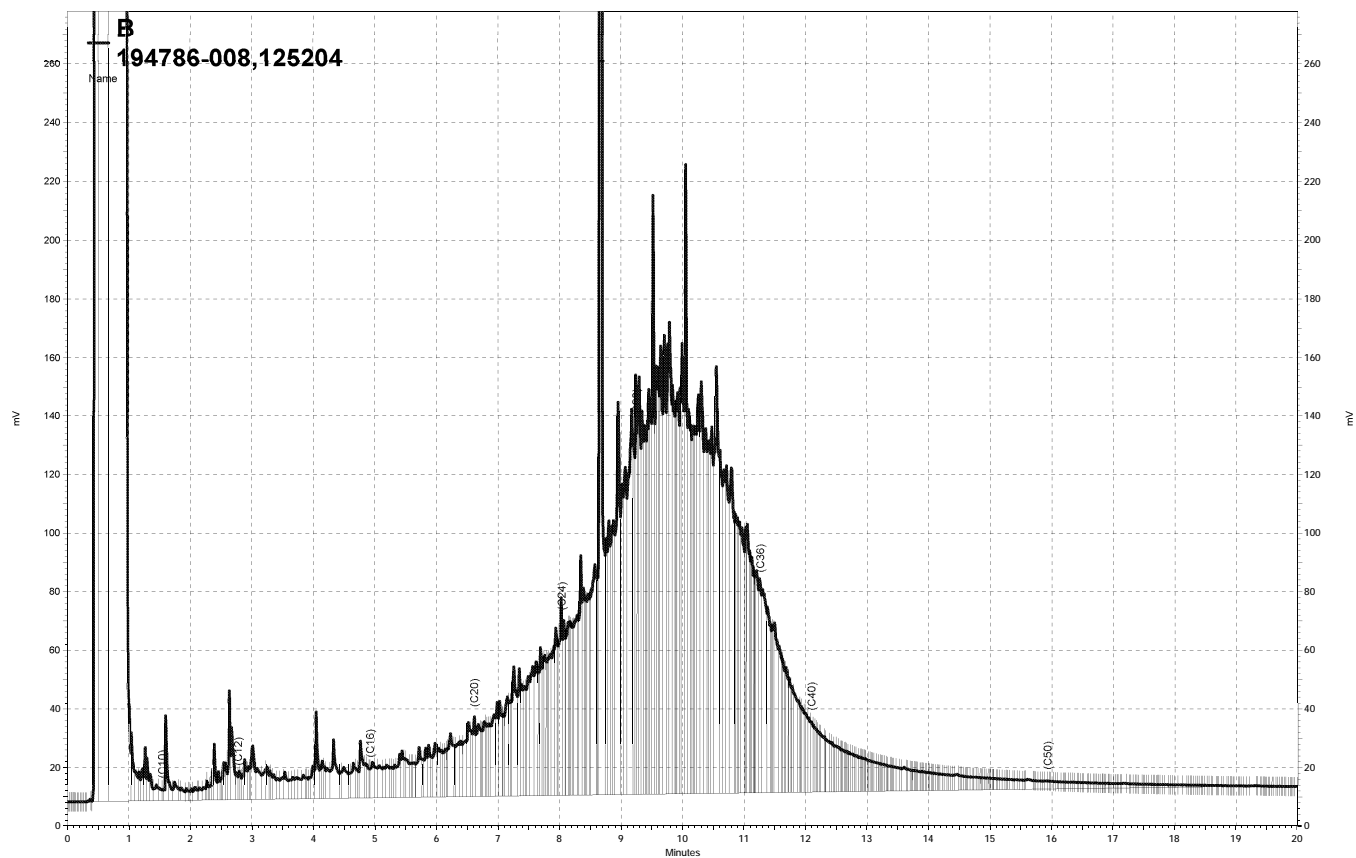
RPD= Relative Percent Difference



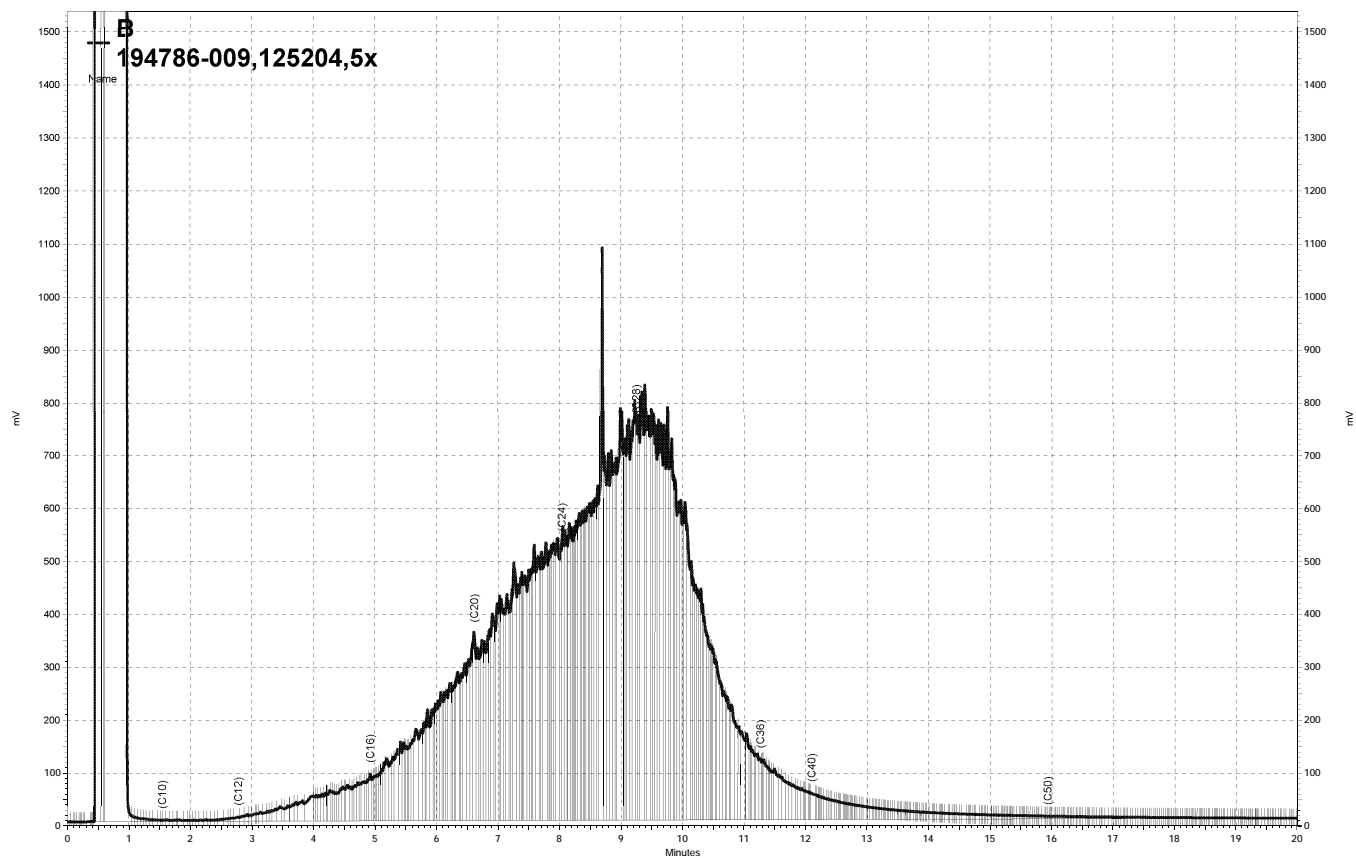
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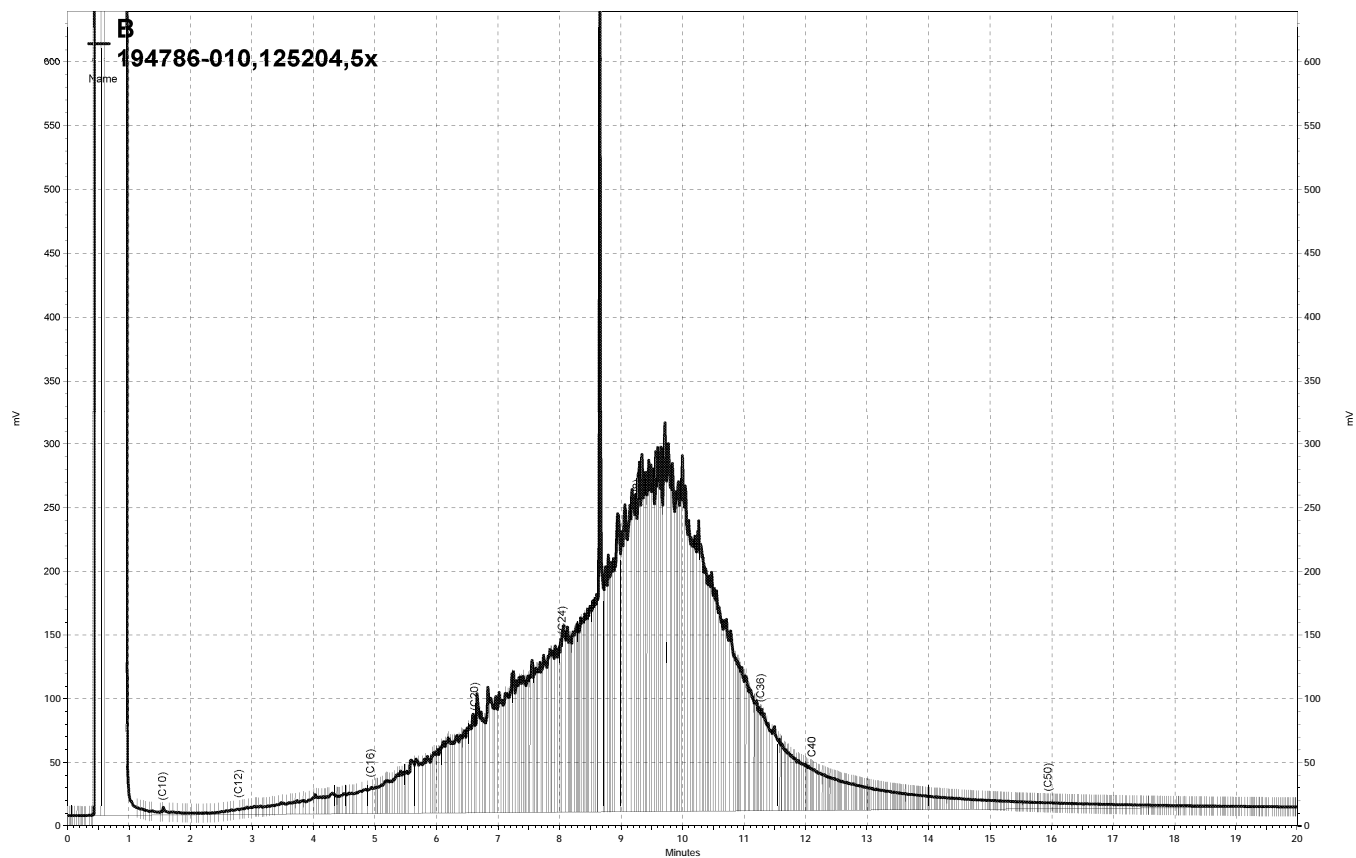


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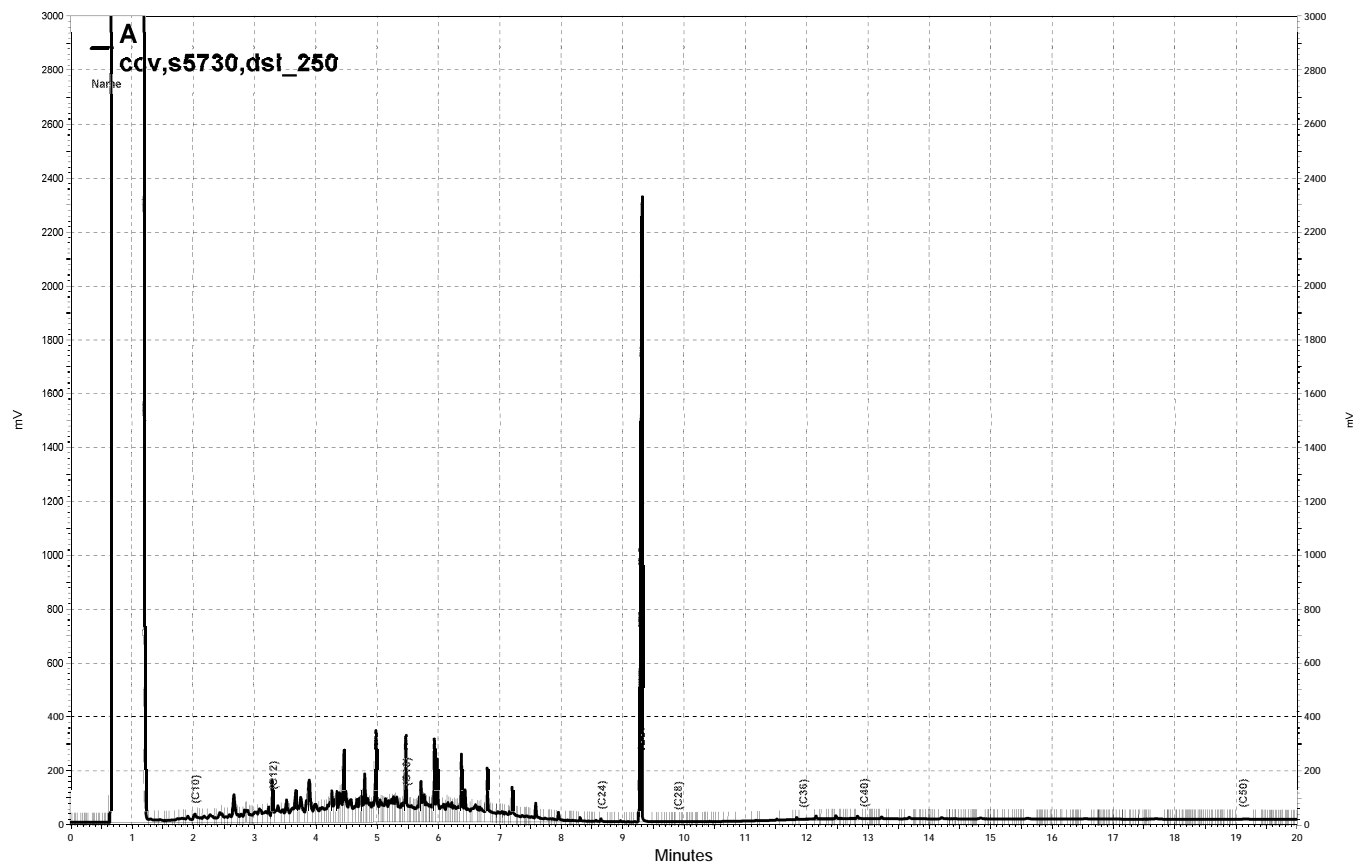


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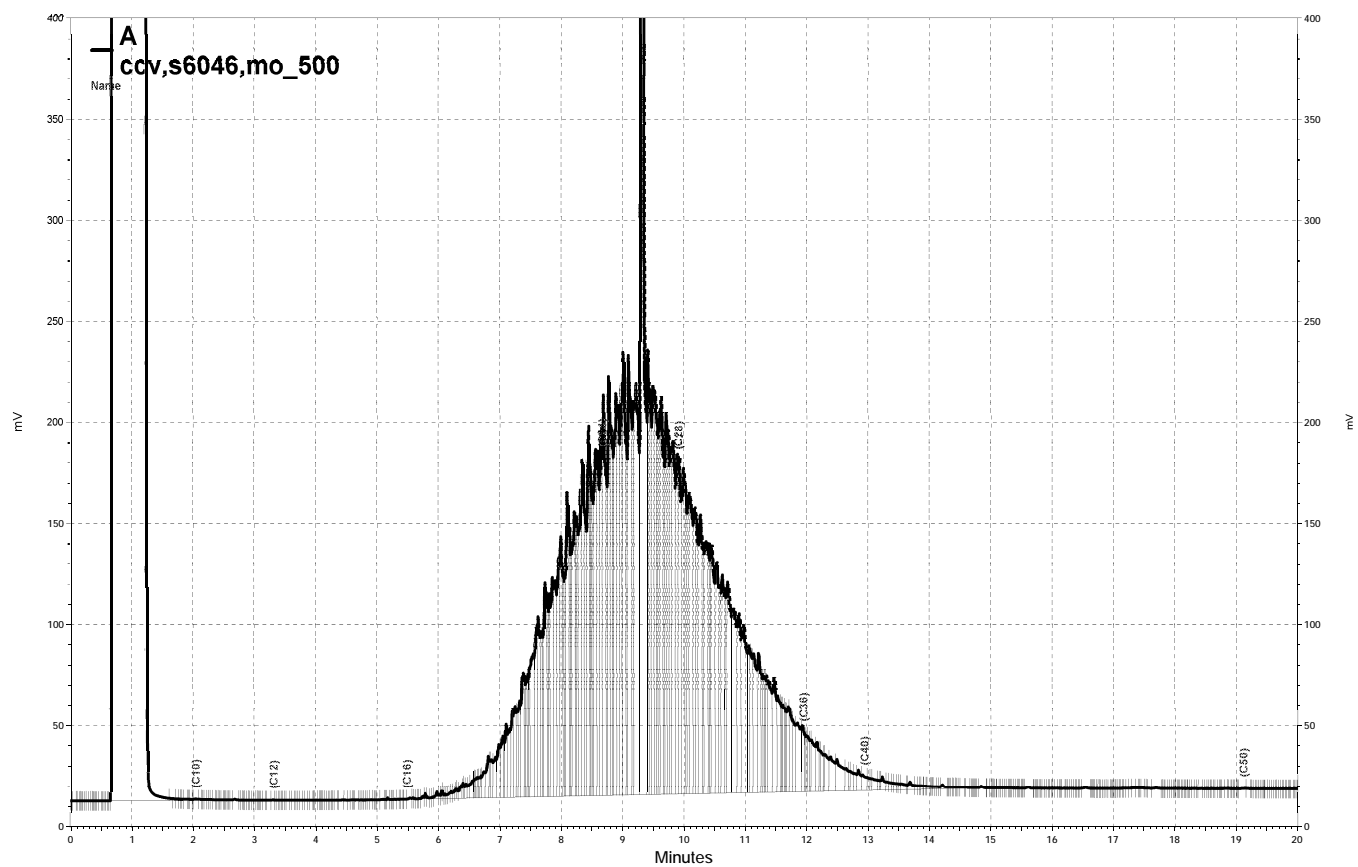




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### Polychlorinated Biphenyls (PCBs)

Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/14/07
Units:	ug/Kg	Received:	05/14/07
Basis:	as received	Prepared:	05/15/07
Batch#:	125199		

Field ID: K1S@2.5'      Diln Fac: 1.000  
Type: SAMPLE      Analyzed: 05/15/07  
Lab ID: 194786-001      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	85	63-141
Decachlorobiphenyl	79	50-158

Field ID: K2N@2.5'      Diln Fac: 1.000  
Type: SAMPLE      Analyzed: 05/15/07  
Lab ID: 194786-002      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	100	12
Aroclor-1260	94	12

Surrogate	%REC	Limits
TCMX	105	63-141
Decachlorobiphenyl	101	50-158

Field ID: K3E@2.5'      Diln Fac: 1.000  
Type: SAMPLE      Analyzed: 05/15/07  
Lab ID: 194786-003      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	180	12
Aroclor-1260	100	12

Surrogate	%REC	Limits
TCMX	104	63-141
Decachlorobiphenyl	93	50-158

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #: 194786	Location: Former Larkspur Treatment Plant
Client: Questa Engineering Corporation	Prep: EPA 3550B
Project#: STANDARD	Analysis: EPA 8082
Matrix: Soil	Sampled: 05/14/07
Units: ug/Kg	Received: 05/14/07
Basis: as received	Prepared: 05/15/07
Batch#: 125199	

Field ID: K4W@2.5'	Diln Fac: 1.000
Type: SAMPLE	Analyzed: 05/15/07
Lab ID: 194786-004	Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	13	12
Aroclor-1260	16	12

Surrogate	%REC	Limits
TCMX	89	63-141
Decachlorobiphenyl	83	50-158

Field ID: K5B@5.0'	Diln Fac: 1.000
Type: SAMPLE	Analyzed: 05/15/07
Lab ID: 194786-005	Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	96	12
Aroclor-1260	100	12

Surrogate	%REC	Limits
TCMX	91	63-141
Decachlorobiphenyl	81	50-158

Field ID: H1N@2.0'	Diln Fac: 2.000
Type: SAMPLE	Analyzed: 05/16/07
Lab ID: 194786-011	Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	24
Aroclor-1221	ND	48
Aroclor-1232	ND	24
Aroclor-1242	ND	24
Aroclor-1248	ND	24
Aroclor-1254	1,300	24
Aroclor-1260	1,300	24

Surrogate	%REC	Limits
TCMX	120	63-141
Decachlorobiphenyl	114	50-158

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/14/07
Units:	ug/Kg	Received:	05/14/07
Basis:	as received	Prepared:	05/15/07
Batch#:	125199		

Field ID: H2S@2.0'      Diln Fac: 5.000  
 Type: SAMPLE      Analyzed: 05/16/07  
 Lab ID: 194786-012      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	60
Aroclor-1221	ND	120
Aroclor-1232	ND	60
Aroclor-1242	ND	60
Aroclor-1248	ND	60
Aroclor-1254	2,100	60
Aroclor-1260	2,100	60

Surrogate	%REC	Limits
TCMX	100	63-141
Decachlorobiphenyl	109	50-158

Field ID: H3E@2.0'      Diln Fac: 1.000  
 Type: SAMPLE      Analyzed: 05/16/07  
 Lab ID: 194786-013      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	480	12
Aroclor-1260	460	12

Surrogate	%REC	Limits
TCMX	97	63-141
Decachlorobiphenyl	92	50-158

Field ID: H4W@2.0'      Diln Fac: 2.000  
 Type: SAMPLE      Analyzed: 05/16/07  
 Lab ID: 194786-014      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	24
Aroclor-1221	ND	47
Aroclor-1232	ND	24
Aroclor-1242	ND	24
Aroclor-1248	ND	24
Aroclor-1254	1,300	24
Aroclor-1260	1,400	24

Surrogate	%REC	Limits
TCMX	107	63-141
Decachlorobiphenyl	109	50-158

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/14/07
Units:	ug/Kg	Received:	05/14/07
Basis:	as received	Prepared:	05/15/07
Batch#:	125199		

Field ID:	H5B@4.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/16/07
Lab ID:	194786-015	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	103	63-141
Decachlorobiphenyl	103	50-158

Field ID:	J1N@2.5'	Diln Fac:	2.000
Type:	SAMPLE	Analyzed:	05/16/07
Lab ID:	194786-016	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	24
Aroclor-1221	ND	47
Aroclor-1232	ND	24
Aroclor-1242	ND	24
Aroclor-1248	ND	24
Aroclor-1254	840	24
Aroclor-1260	1,200	24

Surrogate	%REC	Limits
TCMX	102	63-141
Decachlorobiphenyl	102	50-158

Field ID:	J2S@2.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/16/07
Lab ID:	194786-017	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	120	12
Aroclor-1260	150	12

Surrogate	%REC	Limits
TCMX	107	63-141
Decachlorobiphenyl	102	50-158

ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/14/07
Units:	ug/Kg	Received:	05/14/07
Basis:	as received	Prepared:	05/15/07
Batch#:	125199		

Field ID: J3E@2.5'      Diln Fac: 1.000  
Type: SAMPLE      Analyzed: 05/16/07  
Lab ID: 194786-018      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	57	12
Aroclor-1260	81	12

Surrogate	%REC	Limits
TCMX	124	63-141
Decachlorobiphenyl	116	50-158

Field ID: J4W@2.5'      Diln Fac: 1.000  
Type: SAMPLE      Analyzed: 05/16/07  
Lab ID: 194786-019      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	310	12
Aroclor-1260	460	12

Surrogate	%REC	Limits
TCMX	108	63-141
Decachlorobiphenyl	103	50-158

Field ID: J5B@5.0'      Diln Fac: 1.000  
Type: SAMPLE      Analyzed: 05/16/07  
Lab ID: 194786-020      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	17	12

Surrogate	%REC	Limits
TCMX	122	63-141
Decachlorobiphenyl	114	50-158

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/14/07
Units:	ug/Kg	Received:	05/14/07
Basis:	as received	Prepared:	05/15/07
Batch#:	125199		

Type: BLANK  
 Lab ID: QC387812  
 Diln Fac: 1.000

Analyzed: 05/15/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	112	63-141
Decachlorobiphenyl	105	50-158

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC387813	Batch#:	125199
Matrix:	Soil	Prepared:	05/15/07
Units:	ug/Kg	Analyzed:	05/15/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	165.3	177.4	107	68-138

Surrogate	%REC	Limits
TCMX	99	63-141
Decachlorobiphenyl	100	50-158

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	194786	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	K3E@2.5'	Batch#:	125199
MSS Lab ID:	194786-003	Sampled:	05/14/07
Matrix:	Soil	Received:	05/14/07
Units:	ug/Kg	Prepared:	05/15/07
Basis:	as received	Analyzed:	05/15/07
Diln Fac:	1.000		

Type: MS  
 Lab ID: QC387814

Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<2.006	166.4	185.3	111	72-140

Surrogate	%REC	Limits
TCMX	102	63-141
Decachlorobiphenyl	86	50-158

Type: MSD  
 Lab ID: QC387815

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1232	166.1	188.6	114	72-140	2	27

Surrogate	%REC	Limits
TCMX	99	63-141
Decachlorobiphenyl	89	50-158

RPD= Relative Percent Difference

### Total Extractable Hydrocarbons

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/15/07
Units:	mg/Kg	Received:	05/15/07
Basis:	as received	Prepared:	05/17/07
Batch#:	125324		

Field ID:	F1N@1.5'	Diln Fac:	2.000
Type:	SAMPLE	Analyzed:	05/17/07
Lab ID:	194821-001		

Analyte	Result	RL
Diesel C10-C24	9.8 H Y	2.0
Motor Oil C24-C36	68	10

Surrogate	%REC	Limits
Hexacosane	82	40-127

Field ID:	F2S@1.5'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	05/17/07
Lab ID:	194821-002		

Analyte	Result	RL
Diesel C10-C24	23 H Y	3.0
Motor Oil C24-C36	140	15

Surrogate	%REC	Limits
Hexacosane	99	40-127

Field ID:	F3E@1.5'	Diln Fac:	2.000
Type:	SAMPLE	Analyzed:	05/17/07
Lab ID:	194821-003		

Analyte	Result	RL
Diesel C10-C24	14 H Y	2.0
Motor Oil C24-C36	110	10

Surrogate	%REC	Limits
Hexacosane	89	40-127

Field ID:	F4W@1.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/17/07
Lab ID:	194821-004		

Analyte	Result	RL
Diesel C10-C24	8.6 H Y	1.0
Motor Oil C24-C36	46	5.0

Surrogate	%REC	Limits
Hexacosane	88	40-127

H= Heavier hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

### Total Extractable Hydrocarbons

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/15/07
Units:	mg/Kg	Received:	05/15/07
Basis:	as received	Prepared:	05/17/07
Batch#:	125324		

Field ID: F5BM@3.5' Diln Fac: 1.000  
 Type: SAMPLE Analyzed: 05/18/07  
 Lab ID: 194821-005

Analyte	Result	RL
Diesel C10-C24	15 H Y	1.0
Motor Oil C24-C36	75	5.0

Surrogate	%REC	Limits
Hexacosane	102	40-127

Field ID: F6BE@3.5' Diln Fac: 2.000  
 Type: SAMPLE Analyzed: 05/17/07  
 Lab ID: 194821-006

Analyte	Result	RL
Diesel C10-C24	12 H Y	2.0
Motor Oil C24-C36	85	10

Surrogate	%REC	Limits
Hexacosane	86	40-127

Field ID: F7BW@3.5' Diln Fac: 1.000  
 Type: SAMPLE Analyzed: 05/17/07  
 Lab ID: 194821-007

Analyte	Result	RL
Diesel C10-C24	7.5 H Y	1.0
Motor Oil C24-C36	53	5.0

Surrogate	%REC	Limits
Hexacosane	95	40-127

Field ID: F8NE@1.5' Diln Fac: 2.000  
 Type: SAMPLE Analyzed: 05/17/07  
 Lab ID: 194821-008

Analyte	Result	RL
Diesel C10-C24	21 H Y	2.0
Motor Oil C24-C36	150	10

Surrogate	%REC	Limits
Hexacosane	109	40-127

H= Heavier hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

### Total Extractable Hydrocarbons

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/15/07
Units:	mg/Kg	Received:	05/15/07
Basis:	as received	Prepared:	05/17/07
Batch#:	125324		

Field ID:	F9NW@1.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/17/07
Lab ID:	194821-009		

Analyte	Result	RL
Diesel C10-C24	7.8 H Y	0.99
Motor Oil C24-C36	34	5.0

Surrogate	%REC	Limits
Hexacosane	108	40-127

Field ID:	F10SE@1.5'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	05/17/07
Lab ID:	194821-010		

Analyte	Result	RL
Diesel C10-C24	16 H Y	3.0
Motor Oil C24-C36	110	15

Surrogate	%REC	Limits
Hexacosane	92	40-127

Field ID:	F11SW@1.5'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	05/17/07
Lab ID:	194821-011		

Analyte	Result	RL
Diesel C10-C24	28 H Y	3.0
Motor Oil C24-C36	150	15

Surrogate	%REC	Limits
Hexacosane	92	40-127

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC388325	Analyzed:	05/17/07

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	97	40-127

H= Heavier hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit



## Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC388326	Batch#:	125324
Matrix:	Soil	Prepared:	05/17/07
Units:	mg/Kg	Analyzed:	05/18/07
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.55	44.67	90	58-127

Surrogate	%REC	Limits
Hexacosane	91	40-127

## Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	125324
MSS Lab ID:	194850-009	Sampled:	05/16/07
Matrix:	Soil	Received:	05/16/07
Units:	mg/Kg	Prepared:	05/17/07
Basis:	as received	Analyzed:	05/18/07
Diln Fac:	1.000		

Type: MS  
 Lab ID: QC388327

Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.3010	49.92	46.99	94	29-147

Surrogate	%REC	Limits
Hexacosane	97	40-127

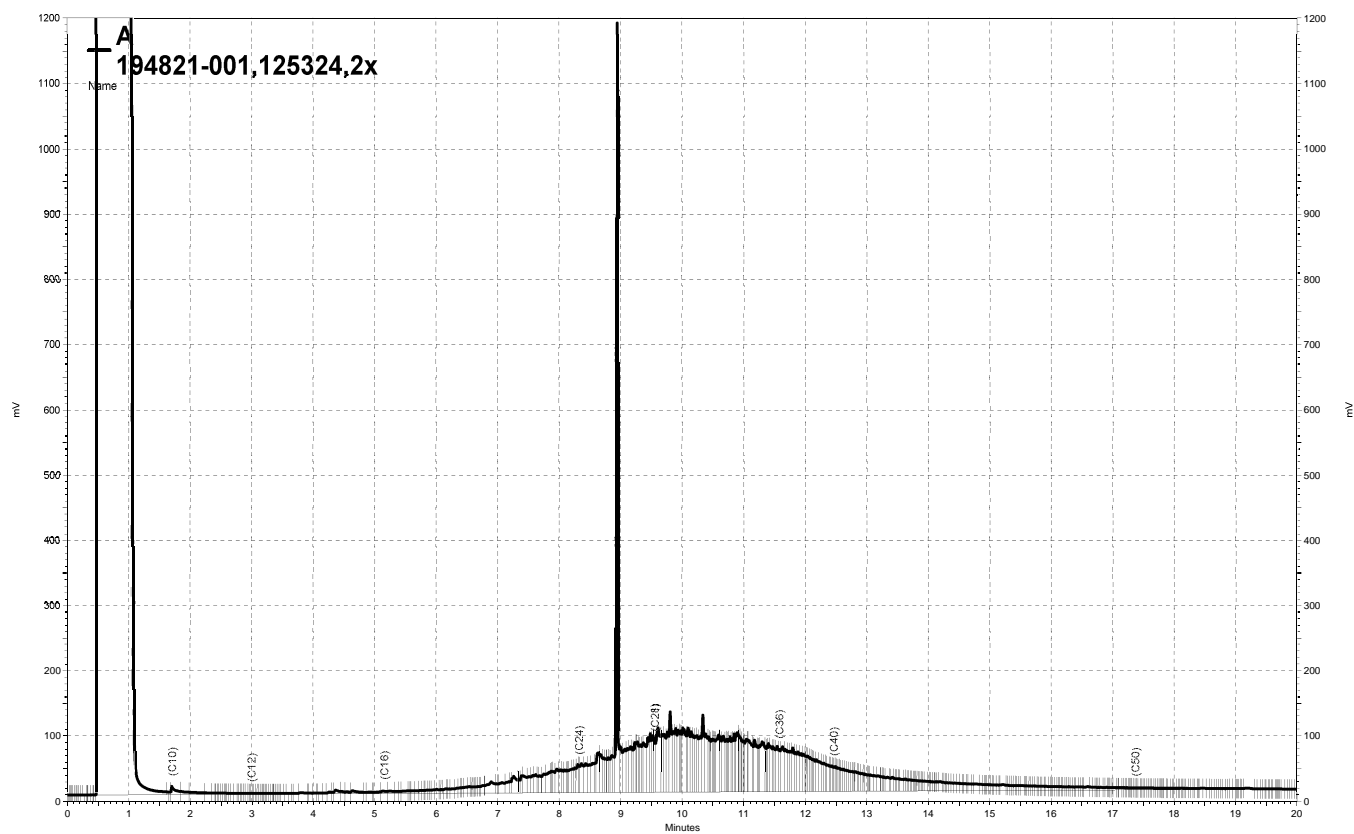
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 Lab ID: QC388328

Cleanup Method: EPA 3630C

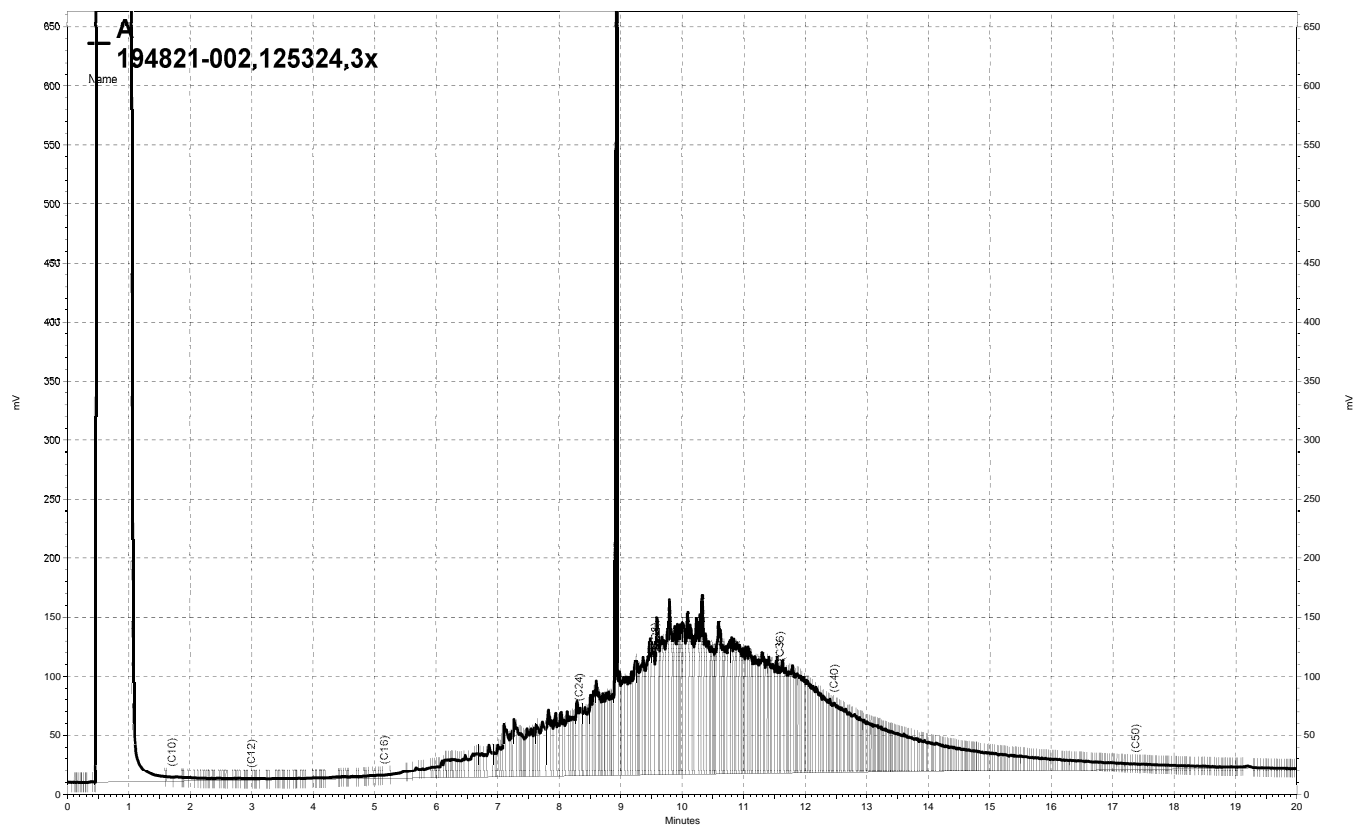
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.94	44.60	89	29-147	5	46

Surrogate	%REC	Limits
Hexacosane	90	40-127

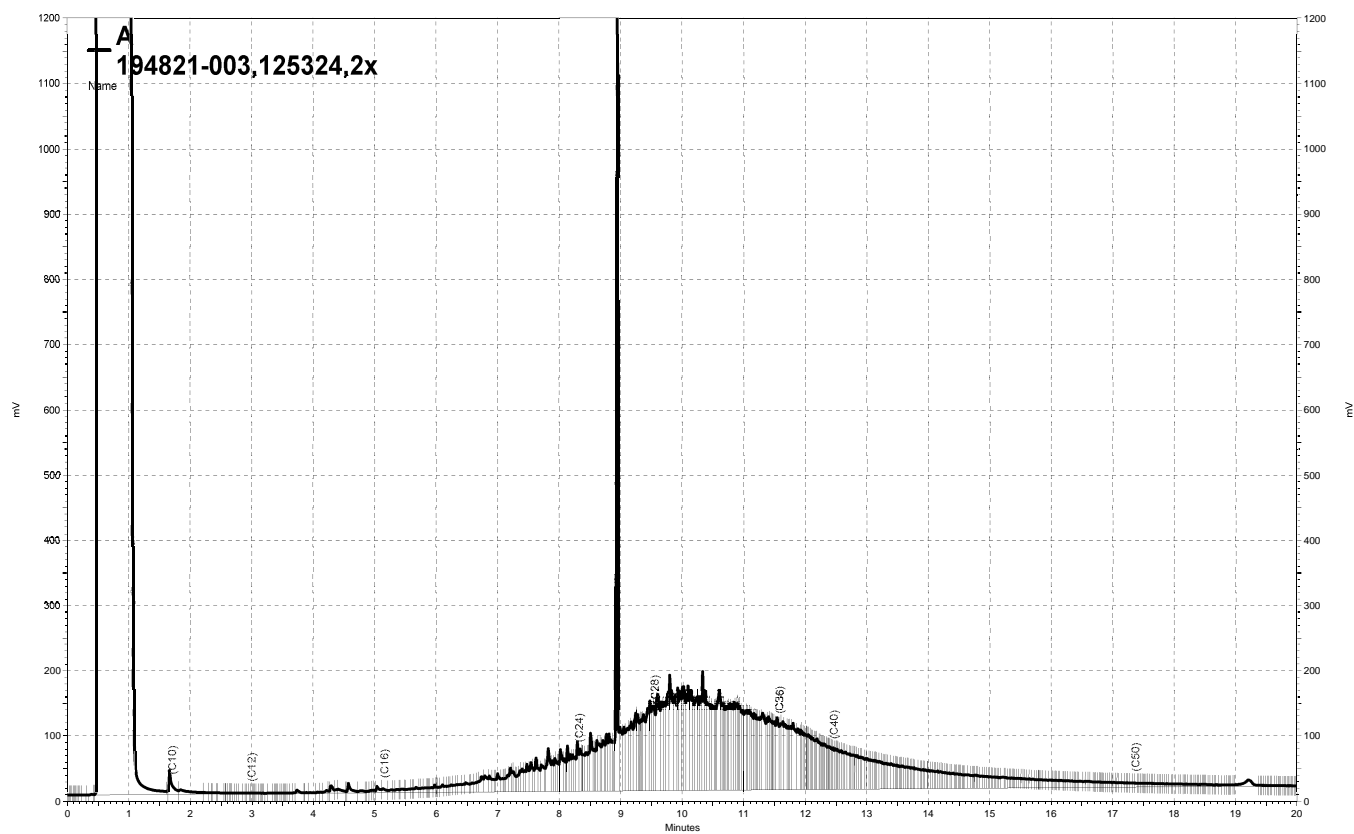
RPD= Relative Percent Difference



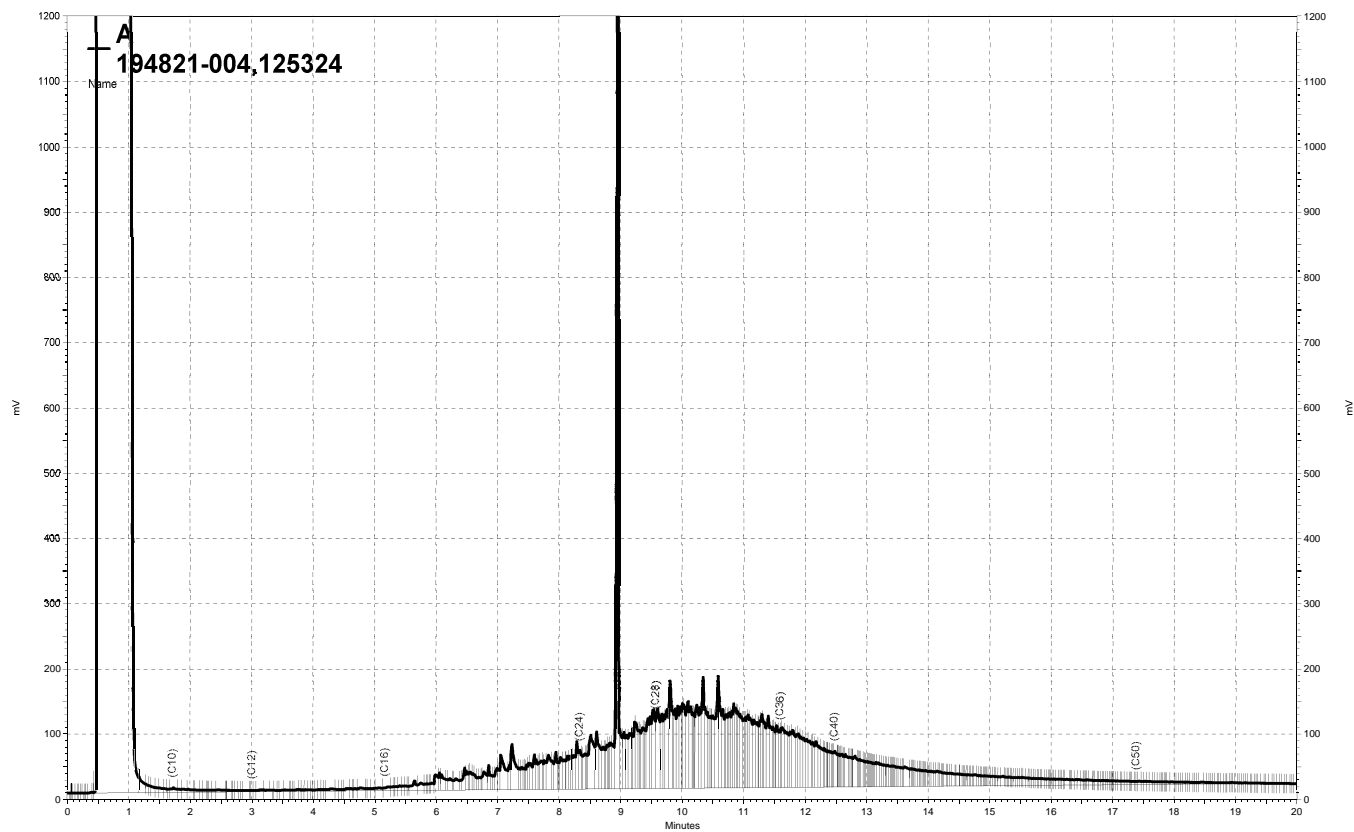
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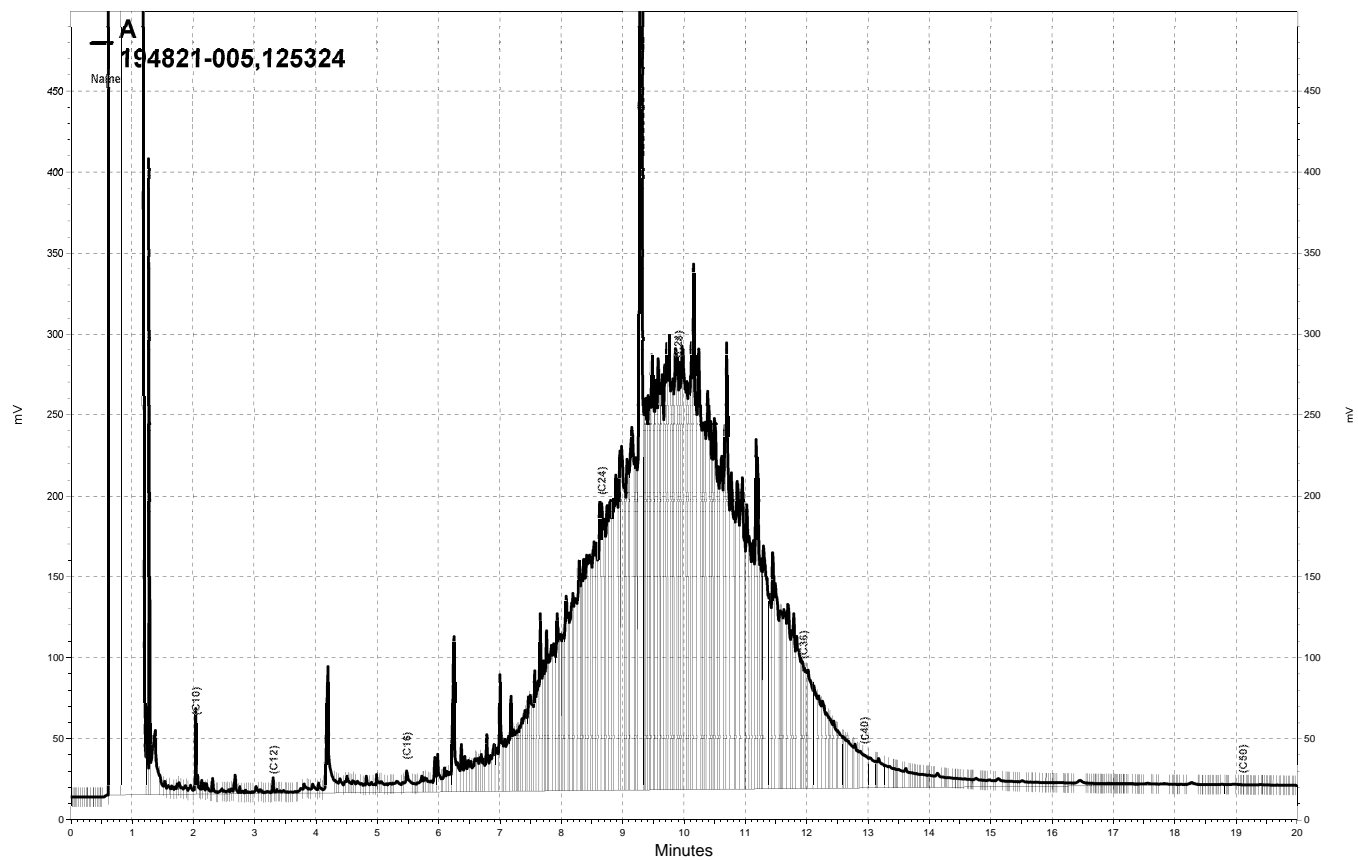
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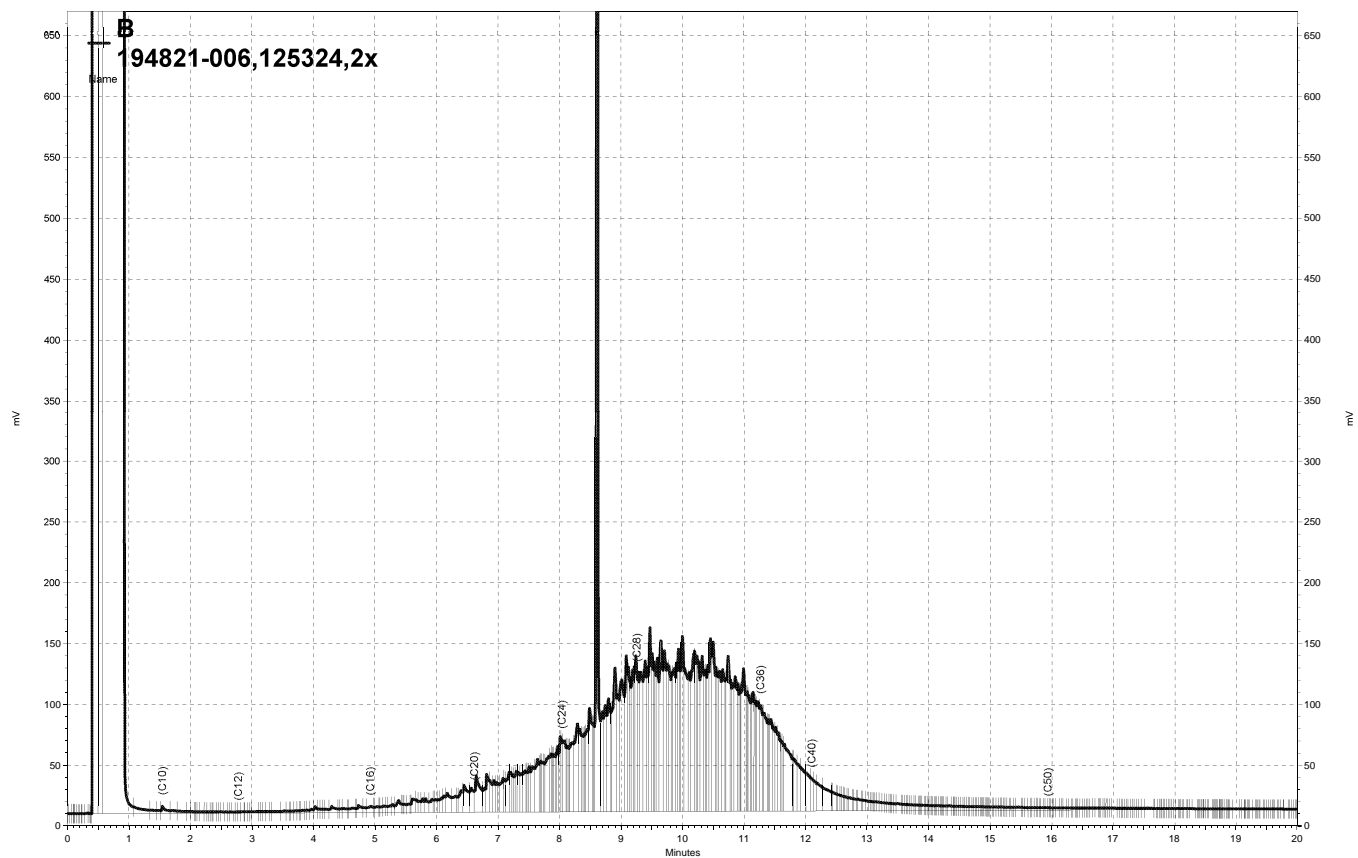
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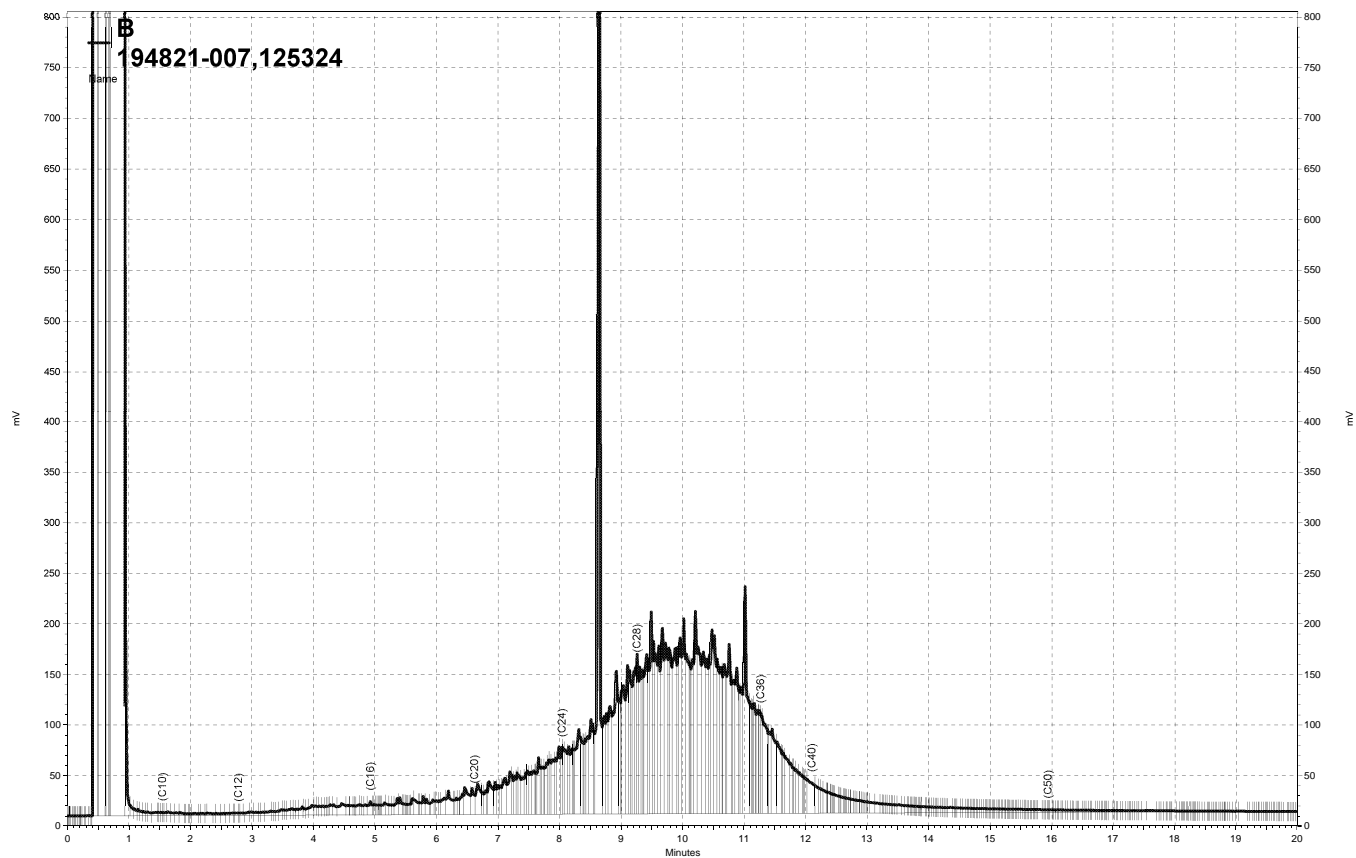


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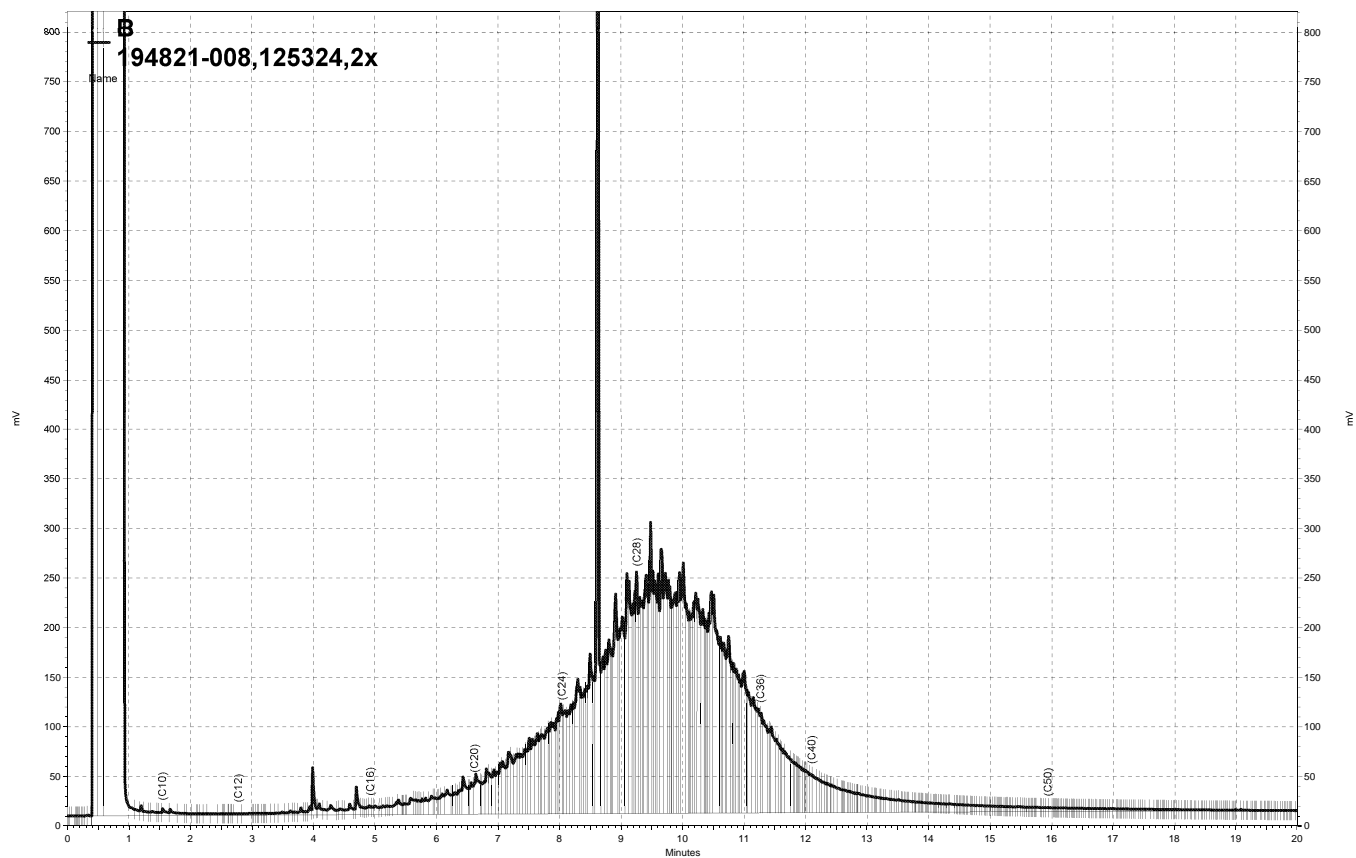


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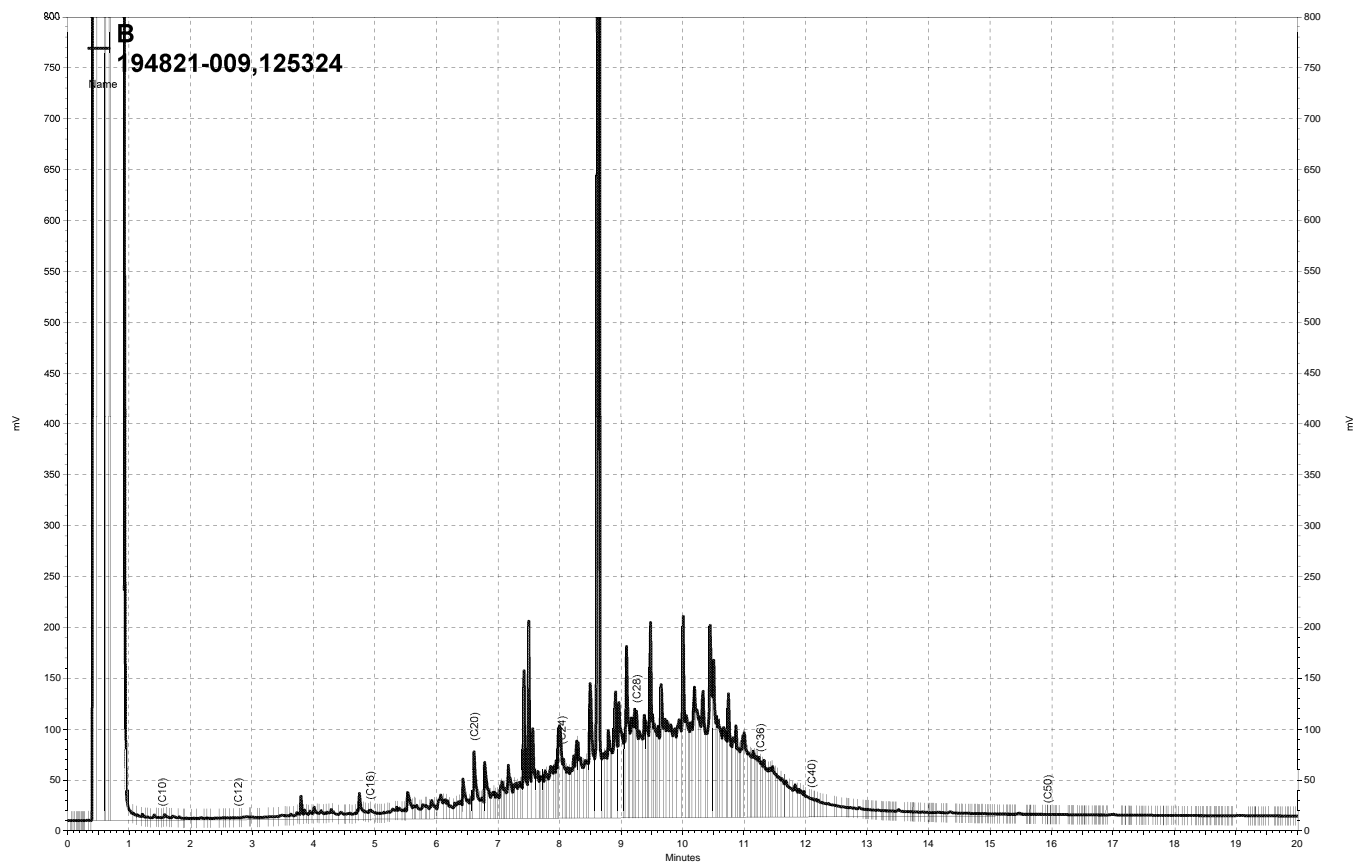




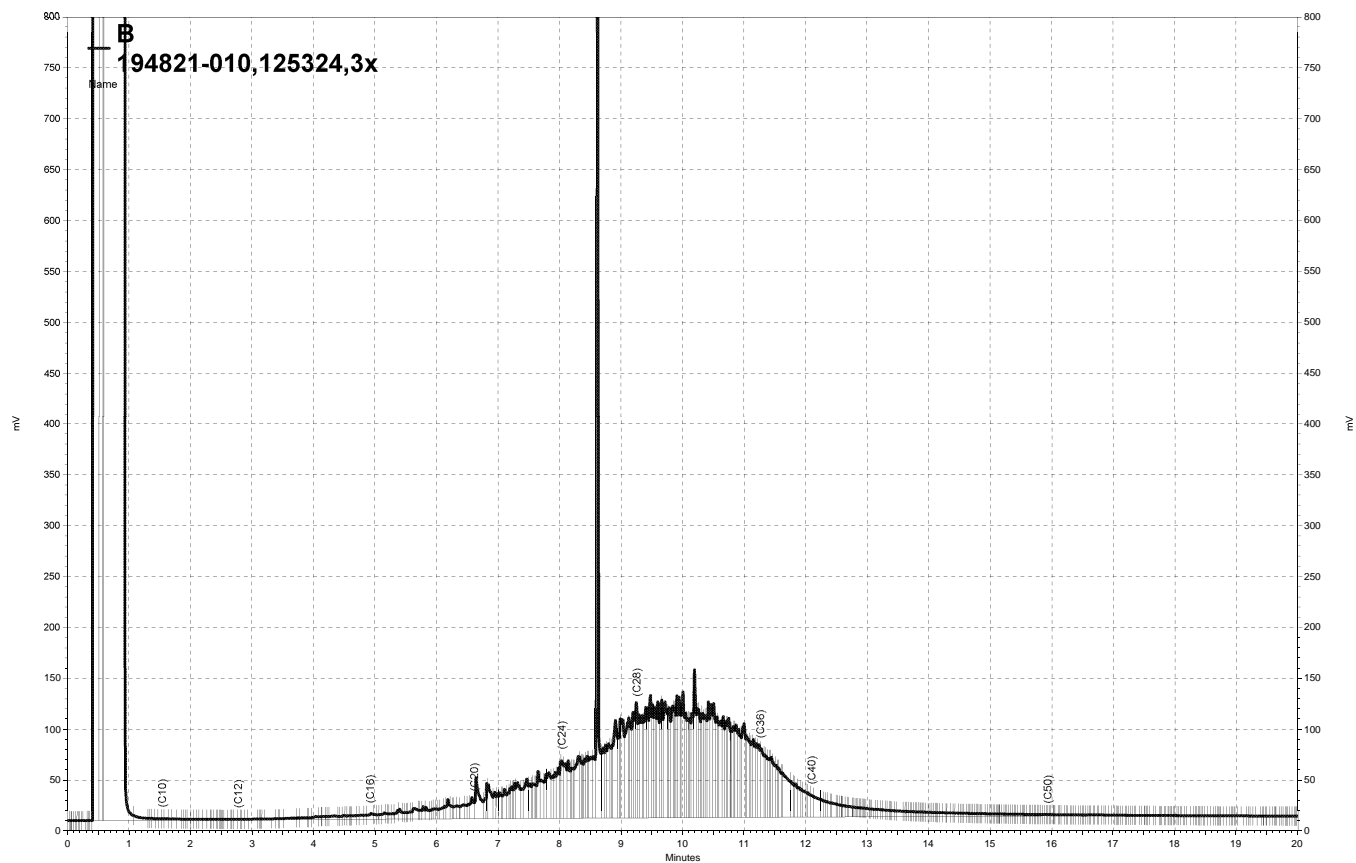
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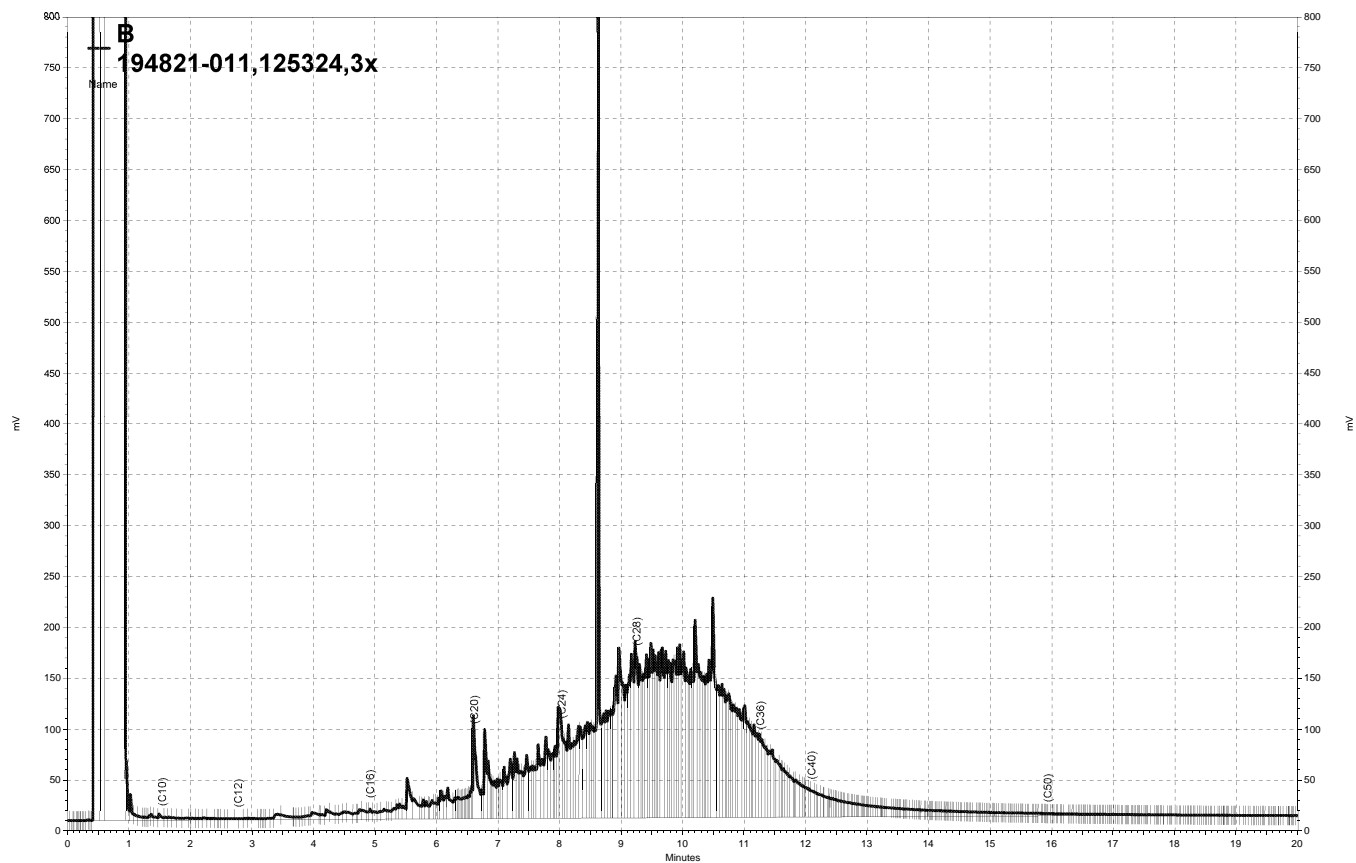
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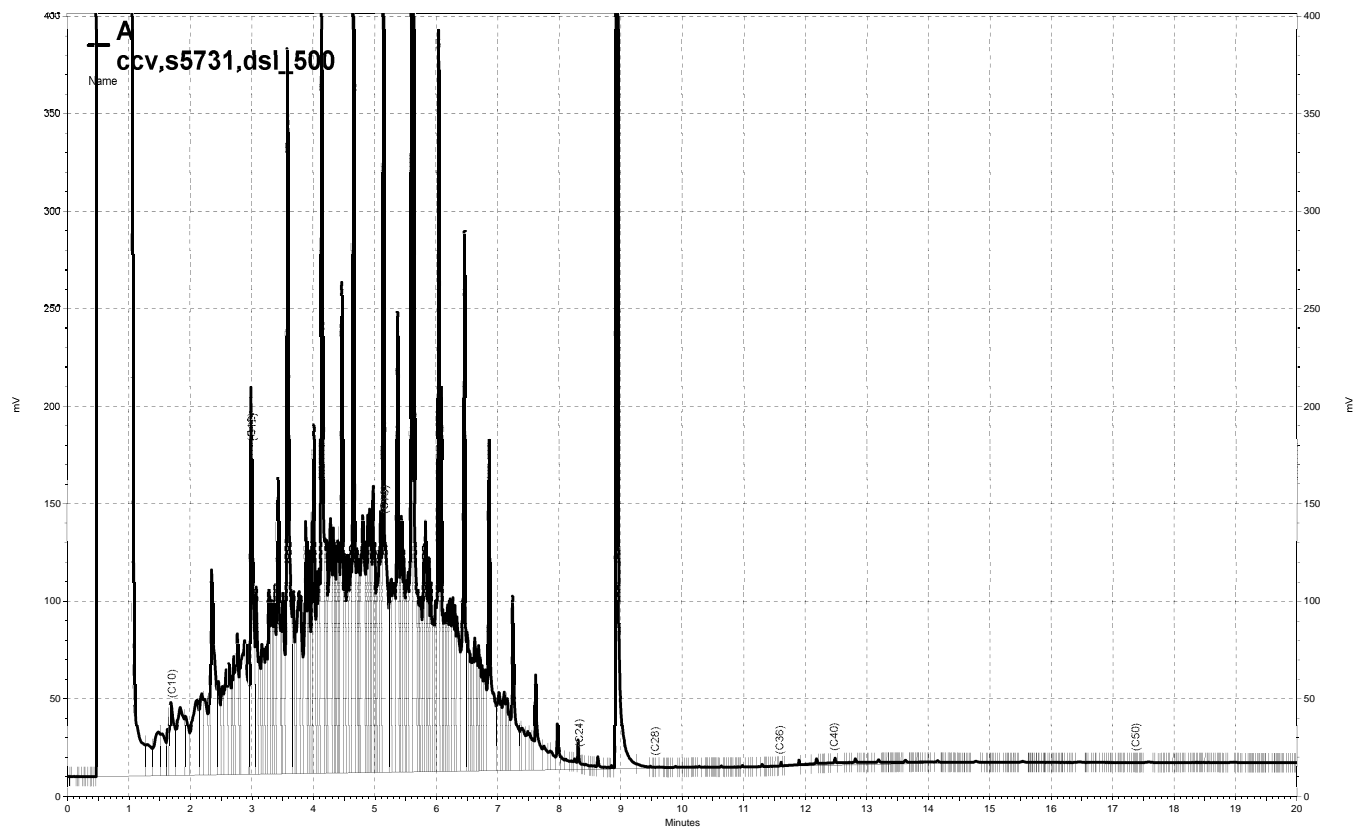
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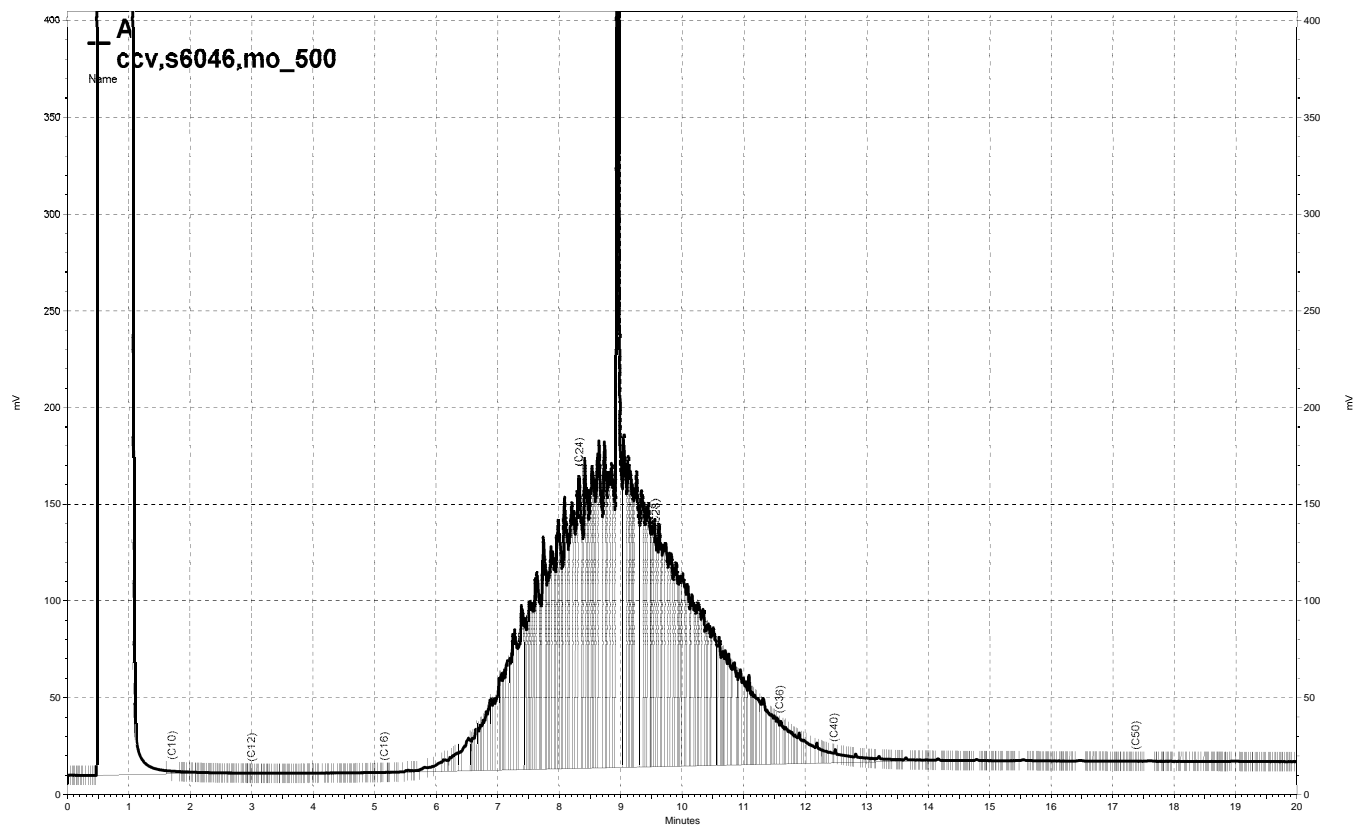
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\\Lims\gdrive\ezchrom\Projects\GC11A\Data\137a003, A

### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	F1N@1.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-001	Analyzed:	05/17/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	120	12
Aroclor-1260	86	12

Surrogate	%REC	Limits
TCMX	115	63-141
Decachlorobiphenyl	104	50-158

Field ID:	F2S@1.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-002	Analyzed:	05/17/07
Diln Fac:	5.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	60
Aroclor-1221	ND	120
Aroclor-1232	ND	60
Aroclor-1242	ND	60
Aroclor-1248	ND	60
Aroclor-1254	1,600	60
Aroclor-1260	1,900	60

Surrogate	%REC	Limits
TCMX	107	63-141
Decachlorobiphenyl	115	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	F3E@1.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-003	Analyzed:	05/17/07
Diln Fac:	2.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	24
Aroclor-1221	ND	48
Aroclor-1232	ND	24
Aroclor-1242	ND	24
Aroclor-1248	ND	24
Aroclor-1254	910	24
Aroclor-1260	890	24

Surrogate	%REC	Limits
TCMX	97	63-141
Decachlorobiphenyl	101	50-158

Field ID:	F4W@1.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-004	Analyzed:	05/17/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	380	12
Aroclor-1260	410	12

Surrogate	%REC	Limits
TCMX	122	63-141
Decachlorobiphenyl	114	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	F5BM@3.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-005	Analyzed:	05/16/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	96	63-141
Decachlorobiphenyl	93	50-158

Field ID:	F6BE@3.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-006	Analyzed:	05/17/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	20	12

Surrogate	%REC	Limits
TCMX	109	63-141
Decachlorobiphenyl	112	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	F7BW@3.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-007	Analyzed:	05/18/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	250	12
Aroclor-1260	290	12

Surrogate	%REC	Limits
TCMX	110	63-141
Decachlorobiphenyl	101	50-158

Field ID:	F8NE@1.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-008	Analyzed:	05/18/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	33	12

Surrogate	%REC	Limits
TCMX	110	63-141
Decachlorobiphenyl	100	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	F9NW@1.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-009	Analyzed:	05/18/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	106	63-141
Decachlorobiphenyl	107	50-158

Field ID:	F10SE@1.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-010	Analyzed:	05/18/07
Diln Fac:	3.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	36
Aroclor-1221	ND	72
Aroclor-1232	ND	36
Aroclor-1242	ND	36
Aroclor-1248	ND	36
Aroclor-1254	1,500	36
Aroclor-1260	1,400	36

Surrogate	%REC	Limits
TCMX	133	63-141
Decachlorobiphenyl	127	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	F11SW@1.5'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-011	Analyzed:	05/18/07
Diln Fac:	10.00	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	120
Aroclor-1221	ND	240
Aroclor-1232	ND	120
Aroclor-1242	ND	120
Aroclor-1248	ND	120
Aroclor-1254	3,800	120
Aroclor-1260	4,700	120

Surrogate	%REC	Limits
TCMX	DO	63-141
Decachlorobiphenyl	DO	50-158

Field ID:	G1N@3.0'	Batch#:	125269
Type:	SAMPLE	Prepared:	05/16/07
Lab ID:	194821-012	Analyzed:	05/18/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	57	12
Aroclor-1260	100	12

Surrogate	%REC	Limits
TCMX	99	63-141
Decachlorobiphenyl	94	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	G2S@3.0'	Batch#:	125358
Type:	SAMPLE	Prepared:	05/18/07
Lab ID:	194821-013	Analyzed:	05/18/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	98	9.5
Aroclor-1260	220	9.5

Surrogate	%REC	Limits
TCMX	90	63-141
Decachlorobiphenyl	77	50-158

Field ID:	G3E@2.0'	Batch#:	125358
Type:	SAMPLE	Prepared:	05/18/07
Lab ID:	194821-014	Analyzed:	05/18/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.6
Aroclor-1221	ND	19
Aroclor-1232	ND	9.6
Aroclor-1242	ND	9.6
Aroclor-1248	ND	9.6
Aroclor-1254	160	9.6
Aroclor-1260	32	9.6

Surrogate	%REC	Limits
TCMX	108	63-141
Decachlorobiphenyl	99	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	G4E@4.5'	Batch#:	125358
Type:	SAMPLE	Prepared:	05/18/07
Lab ID:	194821-015	Analyzed:	05/21/07
Diln Fac:	5.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	48
Aroclor-1221	ND	96
Aroclor-1232	ND	48
Aroclor-1242	ND	48
Aroclor-1248	ND	48
Aroclor-1254	1,700	48
Aroclor-1260	1,400	48

Surrogate	%REC	Limits
TCMX	115	63-141
Decachlorobiphenyl	115	50-158

Field ID:	G5SW@3.5'	Batch#:	125358
Type:	SAMPLE	Prepared:	05/18/07
Lab ID:	194821-016	Analyzed:	05/18/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	21	9.5
Aroclor-1260	30	9.5

Surrogate	%REC	Limits
TCMX	111	63-141
Decachlorobiphenyl	98	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	G6NW@2.0'	Batch#:	125358
Type:	SAMPLE	Prepared:	05/18/07
Lab ID:	194821-017	Analyzed:	05/19/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.6
Aroclor-1221	ND	19
Aroclor-1232	ND	9.6
Aroclor-1242	ND	9.6
Aroclor-1248	ND	9.6
Aroclor-1254	ND	9.6
Aroclor-1260	ND	9.6

Surrogate	%REC	Limits
TCMX	106	63-141
Decachlorobiphenyl	101	50-158

Field ID:	G7NW@4.5'	Batch#:	125358
Type:	SAMPLE	Prepared:	05/18/07
Lab ID:	194821-018	Analyzed:	05/21/07
Diln Fac:	5.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	48
Aroclor-1221	ND	95
Aroclor-1232	ND	48
Aroclor-1242	ND	48
Aroclor-1248	ND	48
Aroclor-1254	2,000	48
Aroclor-1260	2,200	48

Surrogate	%REC	Limits
TCMX	101	63-141
Decachlorobiphenyl	111	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Field ID:	G8SWB@6.5'	Batch#:	125358
Type:	SAMPLE	Prepared:	05/18/07
Lab ID:	194821-019	Analyzed:	05/19/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	26	9.5
Aroclor-1260	29	9.5

Surrogate	%REC	Limits
TCMX	111	63-141
Decachlorobiphenyl	102	50-158

Field ID:	G9B@6.5'	Batch#:	125358
Type:	SAMPLE	Prepared:	05/18/07
Lab ID:	194821-020	Analyzed:	05/21/07
Diln Fac:	2.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	19
Aroclor-1221	ND	38
Aroclor-1232	ND	19
Aroclor-1242	ND	19
Aroclor-1248	ND	19
Aroclor-1254	720	19
Aroclor-1260	880	19

Surrogate	%REC	Limits
TCMX	99	63-141
Decachlorobiphenyl	101	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/15/07
Units:	ug/Kg	Received:	05/15/07
Basis:	as received		

Type:	BLANK	Prepared:	05/16/07
Lab ID:	QC388117	Analyzed:	05/16/07
Diln Fac:	1.000	Cleanup Method:	EPA 3665A
Batch#:	125269		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	112	63-141
Decachlorobiphenyl	112	50-158

Type:	BLANK	Prepared:	05/18/07
Lab ID:	QC388487	Analyzed:	05/18/07
Diln Fac:	1.000	Cleanup Method:	EPA 3620B
Batch#:	125358		

Analyte	Result	RL
Aroclor-1016	ND	9.6
Aroclor-1221	ND	19
Aroclor-1232	ND	9.6
Aroclor-1242	ND	9.6
Aroclor-1248	ND	9.6
Aroclor-1254	ND	9.6
Aroclor-1260	ND	9.6

Surrogate	%REC	Limits
TCMX	100	63-141
Decachlorobiphenyl	104	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC388118	Batch#:	125269
Matrix:	Soil	Prepared:	05/16/07
Units:	ug/Kg	Analyzed:	05/16/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	166.2	176.3	106	68-138

Surrogate	%REC	Limits
TCMX	112	63-141
Decachlorobiphenyl	111	50-158

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	F5BM@3.5'	Batch#:	125269
MSS Lab ID:	194821-005	Sampled:	05/15/07
Matrix:	Soil	Received:	05/15/07
Units:	ug/Kg	Prepared:	05/16/07
Basis:	as received	Analyzed:	05/16/07
Diln Fac:	1.000		

Type: MS  
 Lab ID: QC388119

Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<1.655	166.5	170.2	102	72-140

Surrogate	%REC	Limits
TCMX	92	63-141
Decachlorobiphenyl	80	50-158

Type: MSD  
 Lab ID: QC388120

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1232	166.5	166.4	100	72-140	2	27

Surrogate	%REC	Limits
TCMX	88	63-141
Decachlorobiphenyl	84	50-158

RPD= Relative Percent Difference

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC388491	Batch#:	125358
Matrix:	Soil	Prepared:	05/18/07
Units:	ug/Kg	Analyzed:	05/18/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	166.2	152.7	92	68-138

Surrogate	%REC	Limits
TCMX	104	63-141
Decachlorobiphenyl	109	50-158

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	125358
MSS Lab ID:	194874-021	Sampled:	05/17/07
Matrix:	Soil	Received:	05/17/07
Units:	ug/Kg	Prepared:	05/18/07
Basis:	as received	Analyzed:	05/18/07
Diln Fac:	1.000		

Type: MS  
 Lab ID: QC388492

Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<1.318	164.5	162.2	99	72-140

Surrogate	%REC	Limits
TCMX	114	63-141
Decachlorobiphenyl	120	50-158

Type: MSD  
 Lab ID: QC388493

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1232	164.9	159.9	97	72-140	2	27

Surrogate	%REC	Limits
TCMX	112	63-141
Decachlorobiphenyl	109	50-158

RPD= Relative Percent Difference

Lead			
Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	125296
Matrix:	Soil	Sampled:	05/15/07
Units:	mg/Kg	Received:	05/15/07
Basis:	as received	Prepared:	05/16/07
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Analyzed
G1N@3.0'	SAMPLE	194821-012	9.9	0.15	05/18/07
G2S@3.0'	SAMPLE	194821-013	6.0	0.15	05/18/07
G3E@2.0'	SAMPLE	194821-014	13	0.15	05/18/07
G4E@4.5'	SAMPLE	194821-015	6.5	0.15	05/18/07
G5SW@3.5'	SAMPLE	194821-016	12	0.15	05/18/07
G6NW@2.0'	SAMPLE	194821-017	19	0.15	05/18/07
G7NW@4.5'	SAMPLE	194821-018	6.5	0.15	05/18/07
G8SWB@6.5'	SAMPLE	194821-019	7.6	0.15	05/18/07
G9B@6.5'	SAMPLE	194821-020	9.3	0.15	05/18/07
	BLANK	QC388230	ND	0.15	05/17/07

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Lead			
Lab #:	194821	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3050B
Project#:	STANDARD	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	125296
MSS Lab ID:	194770-001	Sampled:	05/11/07
Matrix:	Soil	Received:	05/14/07
Units:	mg/Kg	Prepared:	05/16/07
Basis:	as received	Analyzed:	05/17/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC388231		100.0	96.86	97	80-120		
BSD	QC388232		100.0	100.1	100	80-120	3	20
MS	QC388233	21.57	90.91	106.9	94	55-122		
MSD	QC388234		94.34	101.6	85	55-122	8	26

RPD= Relative Percent Difference



### Total Extractable Hydrocarbons

Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/17/07
Units:	mg/Kg	Received:	05/17/07
Basis:	as received	Prepared:	05/19/07
Diln Fac:	1.000	Analyzed:	05/21/07
Batch#:	125401		

Field ID: I6W@1.25'      Lab ID: 194879-011  
 Type: SAMPLE      Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	12 H Y	0.99
Motor Oil C24-C36	41 H L	5.0

Surrogate	%REC	Limits
Hexacosane	88	40-127

Field ID: I7BW@2.5'      Lab ID: 194879-012  
 Type: SAMPLE      Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	12 H Y	0.99
Motor Oil C24-C36	91 H L	5.0

Surrogate	%REC	Limits
Hexacosane	82	40-127

Type: BLANK      Cleanup Method: EPA 3630C  
 Lab ID: QC388643

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	89	40-127

H= Heavier hydrocarbons contributed to the quantitation  
 L= Lighter hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Total Extractable Hydrocarbons				
Lab #:	194879	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE	
Project#:	STANDARD	Analysis:	EPA 8015B	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC388644	Batch#:	125401	
Matrix:	Soil	Prepared:	05/19/07	
Units:	mg/Kg	Analyzed:	05/21/07	
Basis:	as received			

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.59	41.06	83	58-127

Surrogate	%REC	Limits
Hexacosane	79	40-127

## Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	125401
MSS Lab ID:	194793-002	Sampled:	04/19/07
Matrix:	Soil	Received:	05/14/07
Units:	mg/Kg	Prepared:	05/19/07
Basis:	as received	Analyzed:	05/21/07
Diln Fac:	1.000		

Type: MS Lab ID: QC388645

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	6.138	49.77	38.38	65	29-147

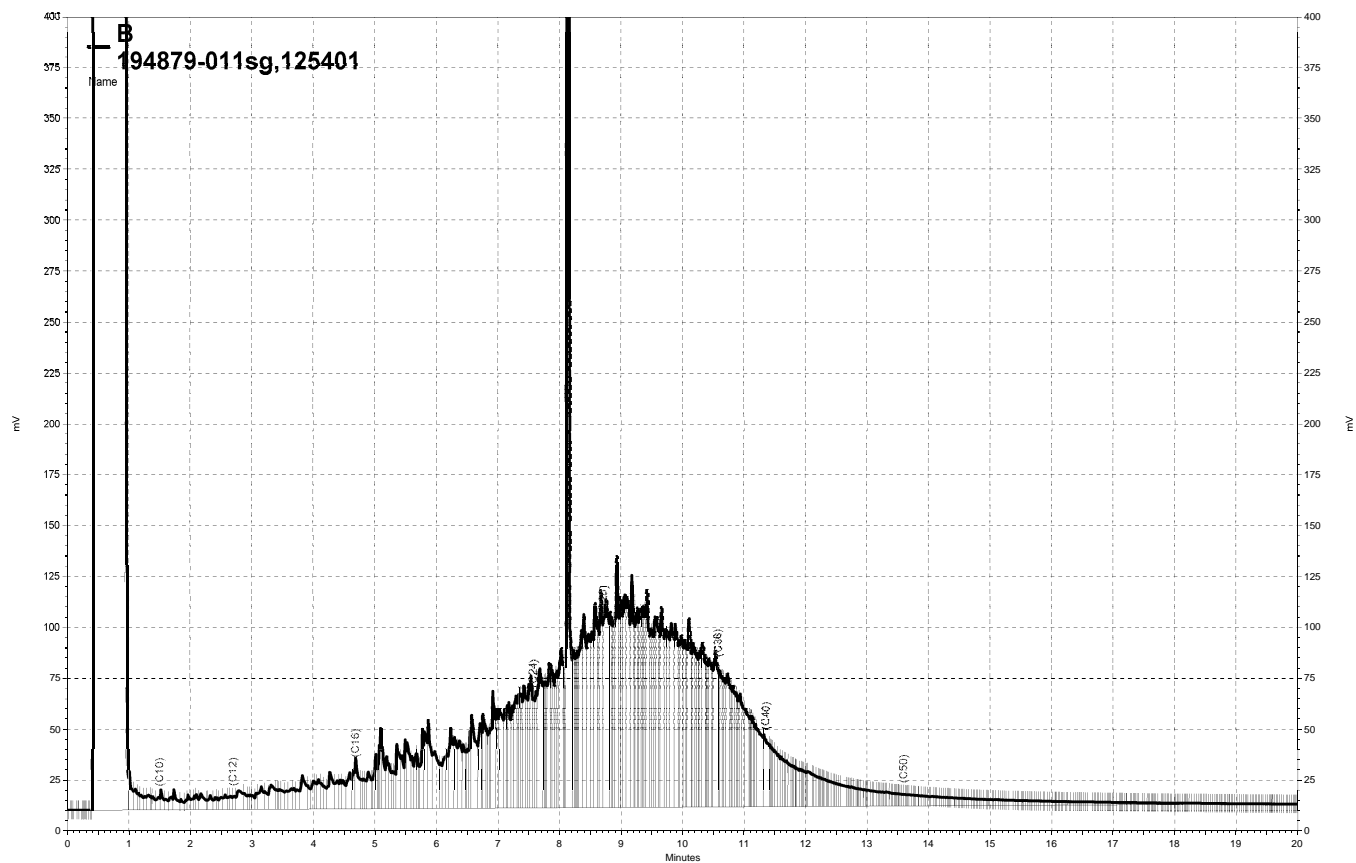
Surrogate	%REC	Limits
Hexacosane	61	40-127

Type: MSD Lab ID: QC388646

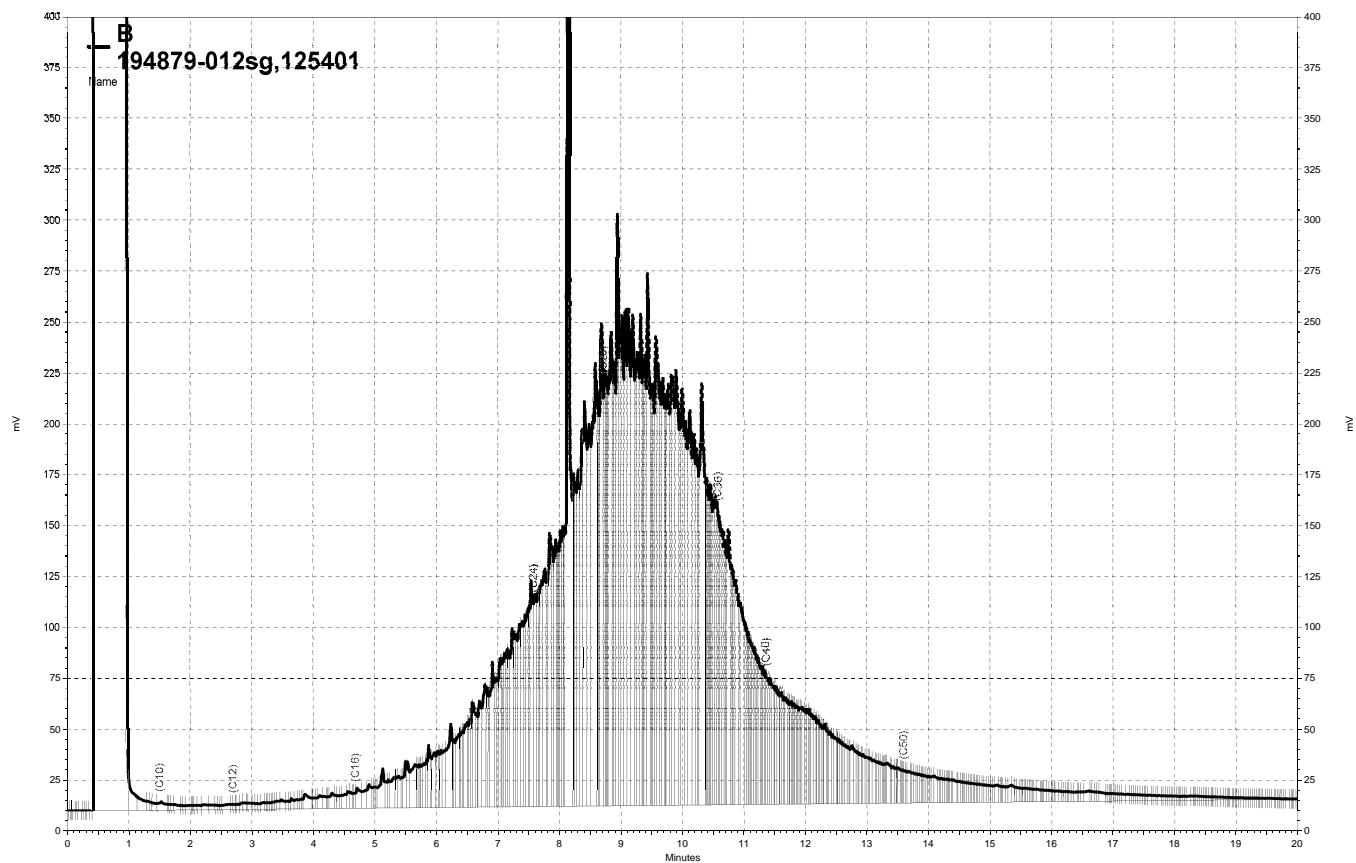
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.62	52.70	94	29-147	32	46

Surrogate	%REC	Limits
Hexacosane	76	40-127

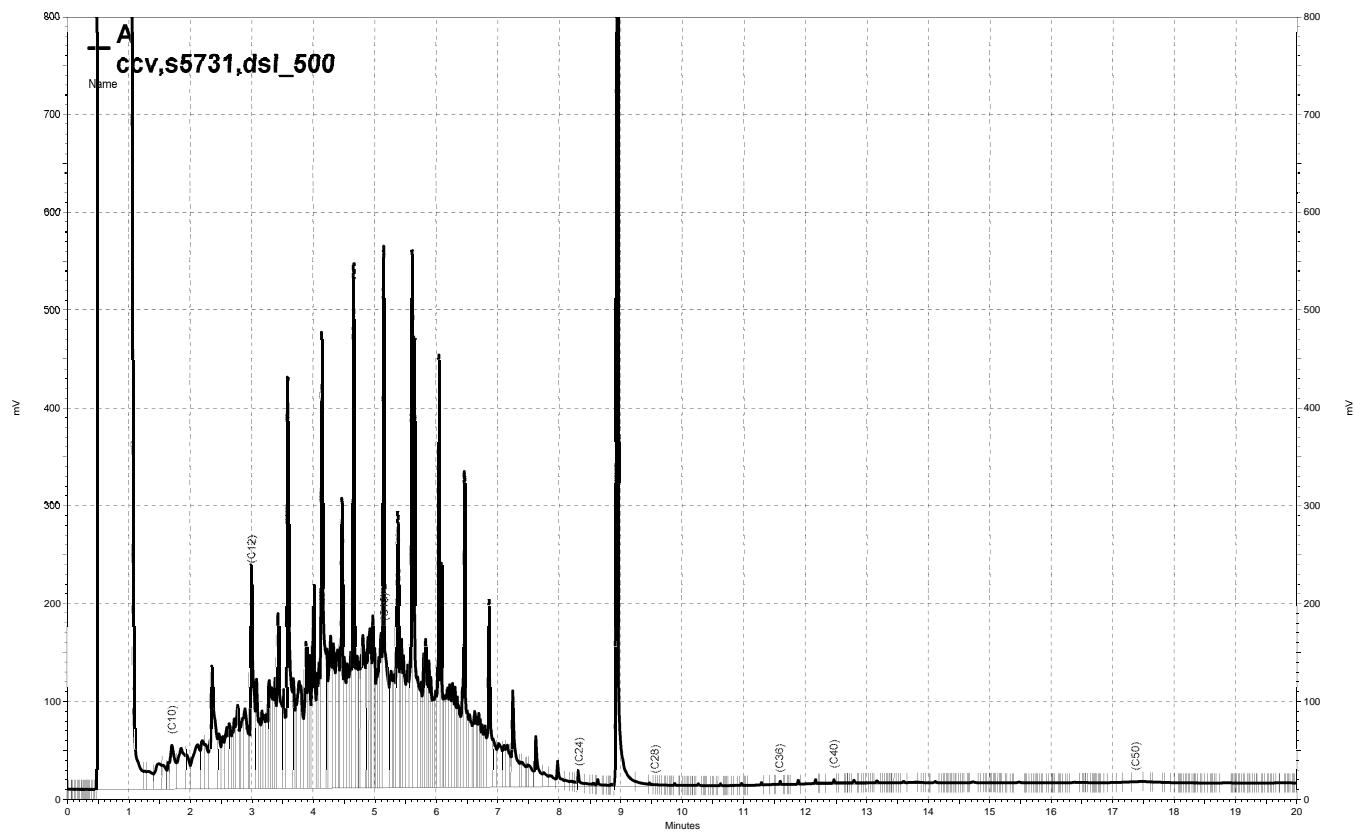
RPD= Relative Percent Difference



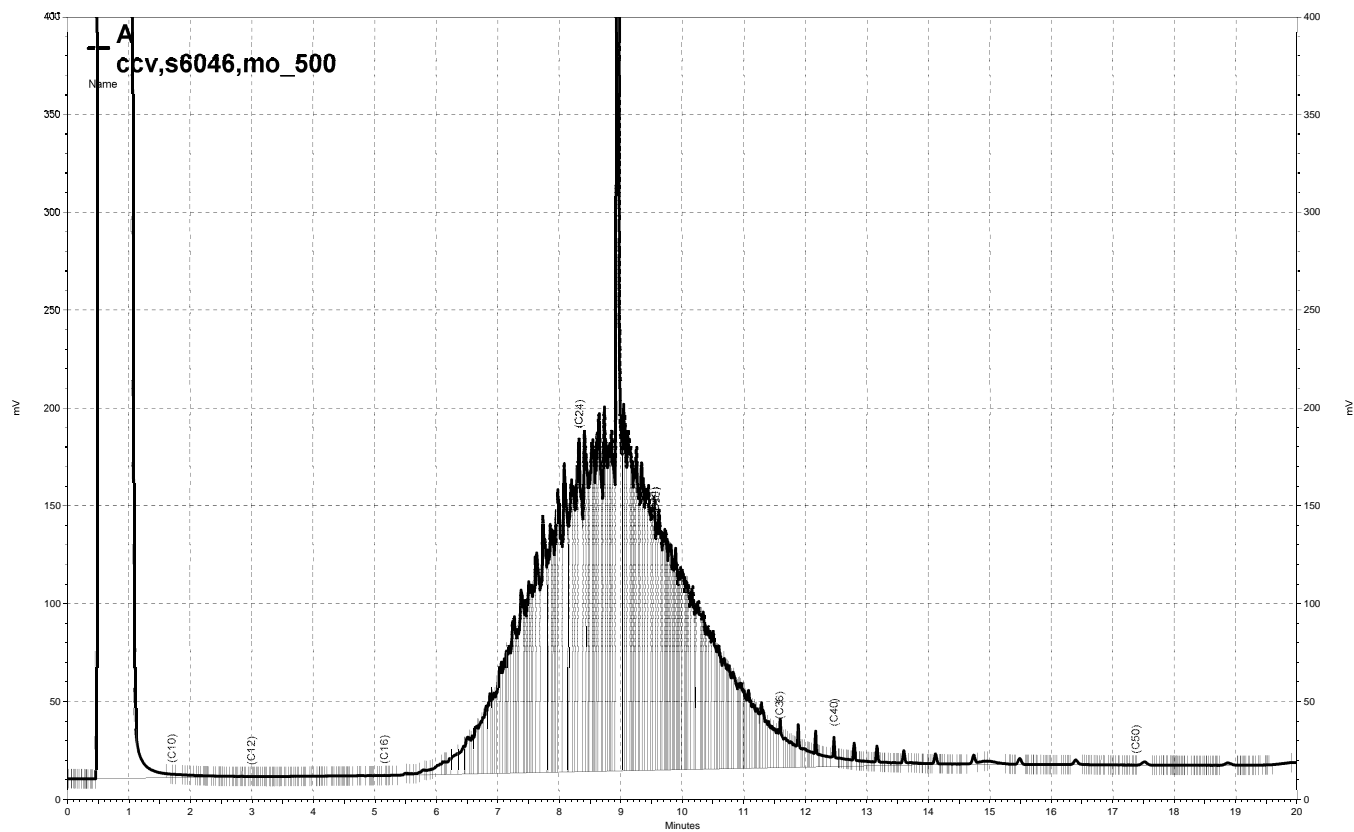
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### Polychlorinated Biphenyls (PCBs)

Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	05/17/07
Basis:	as received	Received:	05/17/07
Batch#:	125402	Prepared:	05/19/07

Field ID:	H6NE@2'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/20/07
Lab ID:	194879-001	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	75	12
Aroclor-1260	56	12

Surrogate	%REC	Limits
TCMX	101	63-141
Decachlorobiphenyl	100	50-158

Field ID:	H7NW@2'	Diln Fac:	10.00
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-002	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	120
Aroclor-1221	ND	240
Aroclor-1232	ND	120
Aroclor-1242	ND	120
Aroclor-1248	ND	120
Aroclor-1254	5,900	120
Aroclor-1260	5,900	120

Surrogate	%REC	Limits
TCMX	DO	63-141
Decachlorobiphenyl	DO	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	05/17/07
Basis:	as received	Received:	05/17/07
Batch#:	125402	Prepared:	05/19/07

Field ID:	H8SE@2'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-003	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	36
Aroclor-1221	ND	72
Aroclor-1232	ND	36
Aroclor-1242	ND	36
Aroclor-1248	ND	36
Aroclor-1254	1,600	36
Aroclor-1260	1,600	36

Surrogate	%REC	Limits
TCMX	97	63-141
Decachlorobiphenyl	106	50-158

Field ID:	H9SW@2'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-004	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	122	63-141
Decachlorobiphenyl	125	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	05/17/07
Basis:	as received	Received:	05/17/07
Batch#:	125402	Prepared:	05/19/07

Field ID:	H10EN@2'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-005	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	640	12
Aroclor-1260	750	12

Surrogate	%REC	Limits
TCMX	125	63-141
Decachlorobiphenyl	124	50-158

Field ID:	H11ES@2'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-006	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	660	12
Aroclor-1260	600	12

Surrogate	%REC	Limits
TCMX	118	63-141
Decachlorobiphenyl	110	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	05/17/07
Basis:	as received	Received:	05/17/07
Batch#:	125402	Prepared:	05/19/07

Field ID:	H12WN@2'	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-007	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	60
Aroclor-1221	ND	120
Aroclor-1232	ND	60
Aroclor-1242	ND	60
Aroclor-1248	ND	60
Aroclor-1254	3,000	60
Aroclor-1260	2,500	60

Surrogate	%REC	Limits
TCMX	109	63-141
Decachlorobiphenyl	118	50-158

Field ID:	H13WS@2'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-008	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	37	12
Aroclor-1260	59	12

Surrogate	%REC	Limits
TCMX	119	63-141
Decachlorobiphenyl	116	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	05/17/07
Basis:	as received	Received:	05/17/07
Batch#:	125402	Prepared:	05/19/07

Field ID:	H14BNE@4'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-009	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	450	12
Aroclor-1260	440	12

Surrogate	%REC	Limits
TCMX	120	63-141
Decachlorobiphenyl	122	50-158

Field ID:	H15BSW@4'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-010	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	106	63-141
Decachlorobiphenyl	113	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	05/17/07
Basis:	as received	Received:	05/17/07
Batch#:	125402	Prepared:	05/19/07

Field ID:	J6N@2.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-013	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	113	63-141
Decachlorobiphenyl	106	50-158

Field ID:	J7S@2.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-014	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	18	12

Surrogate	%REC	Limits
TCMX	114	63-141
Decachlorobiphenyl	110	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	05/17/07
Basis:	as received	Received:	05/17/07
Batch#:	125402	Prepared:	05/19/07

Field ID:	J8WN@2.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-015	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	103	63-141
Decachlorobiphenyl	104	50-158

Field ID:	J9WS@2.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-016	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	340	12
Aroclor-1260	460	12

Surrogate	%REC	Limits
TCMX	102	63-141
Decachlorobiphenyl	97	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	05/17/07
Basis:	as received	Received:	05/17/07
Batch#:	125402	Prepared:	05/19/07

Field ID:	J10BW@5.	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/21/07
Lab ID:	194879-017	Cleanup Method:	EPA 3665A
Matrix:	Soil		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	52	12
Aroclor-1260	50	12

Surrogate	%REC	Limits
TCMX	96	63-141
Decachlorobiphenyl	85	50-158

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC388647	Analyzed:	05/20/07
Matrix:	Miscell.	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	94	63-141
Decachlorobiphenyl	96	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC388648	Batch#:	125402
Matrix:	Miscell.	Prepared:	05/19/07
Units:	ug/Kg	Analyzed:	05/20/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	166.6	157.6	95	68-138

Surrogate	%REC	Limits
TCMX	97	63-141
Decachlorobiphenyl	100	50-158



## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	194879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	125402
MSS Lab ID:	194864-001	Sampled:	05/16/07
Matrix:	Miscell.	Received:	05/17/07
Units:	ug/Kg	Prepared:	05/19/07
Basis:	as received	Analyzed:	05/20/07
Diln Fac:	1.000		

Type: MS  
 Lab ID: QC388649

Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<1.643	165.3	158.1	96	72-140

Surrogate	%REC	Limits
TCMX	95	63-141
Decachlorobiphenyl	94	50-158

Type: MSD  
 Lab ID: QC388650

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1232	166.5	174.3	105	72-140	9	27

Surrogate	%REC	Limits
TCMX	100	63-141
Decachlorobiphenyl	99	50-158

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	195023	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/24/07
Units:	ug/Kg	Received:	05/24/07
Basis:	as received	Prepared:	05/25/07
Batch#:	125621		

Field ID:	G10B@7.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/27/07
Lab ID:	195023-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	55	12
Aroclor-1260	74	12

Surrogate	%REC	Limits
TCMX	128	63-141
Decachlorobiphenyl	116	50-158

Field ID:	G11S@3.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/28/07
Lab ID:	195023-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	71	12
Aroclor-1260	74	12

Surrogate	%REC	Limits
TCMX	109	63-141
Decachlorobiphenyl	116	50-158

Field ID:	G12E@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	05/28/07
Lab ID:	195023-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	550	12
Aroclor-1260	710	12

Surrogate	%REC	Limits
TCMX	128	63-141
Decachlorobiphenyl	126	50-158

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	195023	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/24/07
Units:	ug/Kg	Received:	05/24/07
Basis:	as received	Prepared:	05/25/07
Batch#:	125621		

Field ID:	G13NW@4.5'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	05/31/07
Lab ID:	195023-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	36
Aroclor-1221	ND	72
Aroclor-1232	ND	36
Aroclor-1242	ND	36
Aroclor-1248	ND	36
Aroclor-1254	740	36
Aroclor-1260	780	36

Surrogate	%REC	Limits
TCMX	97	63-141
Decachlorobiphenyl	88	50-158

Type:	BLANK	Analyzed:	05/26/07
Lab ID:	QC389553	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	127	63-141
Decachlorobiphenyl	125	50-158

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	195023	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC389554	Batch#:	125621
Matrix:	Soil	Prepared:	05/25/07
Units:	ug/Kg	Analyzed:	05/31/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	166.2	190.6	115	68-138

Surrogate	%REC	Limits
TCMX	103	63-141
Decachlorobiphenyl	90	50-158

### Polychlorinated Biphenyls (PCBs)

Lab #:	195034	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/24/07
Units:	ug/Kg	Received:	05/24/07
Basis:	as received	Prepared:	05/30/07
Diln Fac:	1.000	Analyzed:	06/01/07
Batch#:	125710		

Field ID: F12E@1.5'  
Type: SAMPLE

Lab ID: 195034-001  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	47	12
Aroclor-1260	39	12

Surrogate	%REC	Limits
TCMX	121	63-141
Decachlorobiphenyl	100	50-158

Field ID: F13SE@1.5'  
Type: SAMPLE

Lab ID: 195034-002  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	123	63-141
Decachlorobiphenyl	107	50-158

Field ID: F14SW@1.5'  
Type: SAMPLE

Lab ID: 195034-003  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	18	12

Surrogate	%REC	Limits
TCMX	117	63-141
Decachlorobiphenyl	95	50-158

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	195034	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/24/07
Units:	ug/Kg	Received:	05/24/07
Basis:	as received	Prepared:	05/30/07
Diln Fac:	1.000	Analyzed:	06/01/07
Batch#:	125710		

Field ID: F15BW@5.0'  
Type: SAMPLE

Lab ID: 195034-004  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	109	63-141
Decachlorobiphenyl	97	50-158

Field ID: F16W@2.0'  
Type: SAMPLE

Lab ID: 195034-005  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	29	12

Surrogate	%REC	Limits
TCMX	120	63-141
Decachlorobiphenyl	98	50-158

Field ID: F17BFW@4.0'  
Type: SAMPLE

Lab ID: 195034-006  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	106	63-141
Decachlorobiphenyl	100	50-158

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	195034	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/24/07
Units:	ug/Kg	Received:	05/24/07
Basis:	as received	Prepared:	05/30/07
Diln Fac:	1.000	Analyzed:	06/01/07
Batch#:	125710		

Field ID: J11WS@2.5'  
Type: SAMPLE

Lab ID: 195034-007  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	460	12
Aroclor-1260	380	12

Surrogate	%REC	Limits
TCMX	105	63-141
Decachlorobiphenyl	80	50-158

Type: BLANK  
Lab ID: QC389892

Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	111	63-141
Decachlorobiphenyl	98	50-158

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	195034	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC389893	Batch#:	125710	
Matrix:	Soil	Prepared:	05/30/07	
Units:	ug/Kg	Analyzed:	06/01/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	164.7	180.9	110	68-138

Surrogate	%REC	Limits
TCMX	119	63-141
Decachlorobiphenyl	107	50-158



### Polychlorinated Biphenyls (PCBs)

Lab #:	195050	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/25/07
Units:	ug/Kg	Received:	05/25/07
Basis:	as received	Prepared:	05/30/07
Batch#:	125731	Analyzed:	05/31/07

Field ID: H16NW@2'  
 Type: SAMPLE  
 Lab ID: 195050-001

Diln Fac: 50.00  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	600
Aroclor-1221	ND	1,200
Aroclor-1232	ND	600
Aroclor-1242	ND	600
Aroclor-1248	ND	600
Aroclor-1254	12,000	600
Aroclor-1260	18,000	600

Surrogate	%REC	Limits
TCMX	DO	63-141
Decachlorobiphenyl	DO	50-158

Field ID: H17SE@2'  
 Type: SAMPLE  
 Lab ID: 195050-002

Diln Fac: 1.000  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	38	12
Aroclor-1260	52	12

Surrogate	%REC	Limits
TCMX	123	63-141
Decachlorobiphenyl	97	50-158

DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	195050	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/25/07
Units:	ug/Kg	Received:	05/25/07
Basis:	as received	Prepared:	05/30/07
Batch#:	125731	Analyzed:	05/31/07

Field ID: H18EN@2'      Diln Fac: 1.000  
Type: SAMPLE      Cleanup Method: EPA 3665A  
Lab ID: 195050-003

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	112	63-141
Decachlorobiphenyl	109	50-158

Field ID: H19ES@2'      Diln Fac: 1.000  
Type: SAMPLE      Cleanup Method: EPA 3665A  
Lab ID: 195050-004

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	130	12
Aroclor-1260	71	12

Surrogate	%REC	Limits
TCMX	120	63-141
Decachlorobiphenyl	87	50-158

### Polychlorinated Biphenyls (PCBs)

Lab #:	195050	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	05/25/07
Units:	ug/Kg	Received:	05/25/07
Basis:	as received	Prepared:	05/30/07
Batch#:	125731	Analyzed:	05/31/07

Field ID: H2OWN@2'      Diln Fac: 1.000  
Type: SAMPLE      Cleanup Method: EPA 3665A  
Lab ID: 195050-005

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	140	12
Aroclor-1260	93	12

Surrogate	%REC	Limits
TCMX	120	63-141
Decachlorobiphenyl	99	50-158

Field ID: H21BNE@6'      Diln Fac: 1.000  
Type: SAMPLE      Cleanup Method: EPA 3665A  
Lab ID: 195050-006

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	110	63-141
Decachlorobiphenyl	99	50-158

Type: BLANK      Diln Fac: 1.000  
Lab ID: QC389991      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	113	63-141
Decachlorobiphenyl	131	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	195050	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC389992	Batch#:	125731
Matrix:	Soil	Prepared:	05/30/07
Units:	ug/Kg	Analyzed:	05/31/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	166.6	184.8	111	68-138

Surrogate	%REC	Limits
TCMX	99	63-141
Decachlorobiphenyl	104	50-158



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 195609

Questa Engineering Corporation	Project : 270025
1220 Brickyard Cove Road	Location : Former Larkspur Treatment Plant
Point Richmond, CA 94801	Level : II

<u>Sample ID</u>	<u>Lab ID</u>
J12 WS@2.5'	195609-001
H22 NW/E@2'	195609-002
H23 NW/N@2'	195609-003
H24 NW/COR@2'	195609-004
H25 NW/W@2'	195609-005
H26 BNW/W@4'	195609-006
H27 BNW/E@4'	195609-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature:   
Project Manager

Date: 07/03/2007

Signature:   
Operations Manager

Date: 07/03/2007

### CASE NARRATIVE

Laboratory number: 195609  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 06/25/07  
Samples Received: 06/25/07

This hardcopy data package contains sample and QC results for seven soil samples, requested for the above referenced project on 06/25/07. The samples were received intact.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	195609	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/25/07
Units:	ug/Kg	Received:	06/25/07
Basis:	as received	Prepared:	06/26/07
Batch#:	126646		

Field ID:	J12 WS@2.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/27/07
Lab ID:	195609-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	310	12
Aroclor-1260	150	12

Surrogate	%REC	Limits
TCMX	86	63-141
Decachlorobiphenyl	75	50-158

Field ID:	H22 NW/E@2'	Diln Fac:	10.00
Type:	SAMPLE	Analyzed:	06/27/07
Lab ID:	195609-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	120
Aroclor-1221	ND	240
Aroclor-1232	ND	120
Aroclor-1242	ND	120
Aroclor-1248	ND	120
Aroclor-1254	4,400	120
Aroclor-1260	4,000	120

Surrogate	%REC	Limits
TCMX	DO	63-141
Decachlorobiphenyl	DO	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	195609	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/25/07
Units:	ug/Kg	Received:	06/25/07
Basis:	as received	Prepared:	06/26/07
Batch#:	126646		

Field ID:	H23 NW/N@2'	Diln Fac:	2.000
Type:	SAMPLE	Analyzed:	06/27/07
Lab ID:	195609-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	24
Aroclor-1221	ND	48
Aroclor-1232	ND	24
Aroclor-1242	ND	24
Aroclor-1248	ND	24
Aroclor-1254	1,000	24
Aroclor-1260	1,000	24

Surrogate	%REC	Limits
TCMX	92	63-141
Decachlorobiphenyl	85	50-158

Field ID:	H24 NW/COR@2'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/27/07
Lab ID:	195609-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	92	63-141
Decachlorobiphenyl	79	50-158

DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	195609	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/25/07
Units:	ug/Kg	Received:	06/25/07
Basis:	as received	Prepared:	06/26/07
Batch#:	126646		

Field ID:	H25 NW/W@2'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/27/07
Lab ID:	195609-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	92	63-141
Decachlorobiphenyl	77	50-158

Field ID:	H26 BNW/W@4'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/27/07
Lab ID:	195609-006	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	97	63-141
Decachlorobiphenyl	88	50-158

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	195609	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/25/07
Units:	ug/Kg	Received:	06/25/07
Basis:	as received	Prepared:	06/26/07
Batch#:	126646		

Field ID:	H27 BNW/E@4'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/27/07
Lab ID:	195609-007	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	38	12
Aroclor-1260	35	12

Surrogate	%REC	Limits
TCMX	92	63-141
Decachlorobiphenyl	78	50-158

Type:	BLANK	Analyzed:	06/26/07
Lab ID:	QC393701	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	104	63-141
Decachlorobiphenyl	119	50-158

DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	195609	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC393702	Batch#:	126646
Matrix:	Soil	Prepared:	06/26/07
Units:	ug/Kg	Analyzed:	06/26/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	166.3	117.9	71	68-138

Surrogate	%REC	Limits
TCMX	76	63-141
Decachlorobiphenyl	76	50-158

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	195609	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	126646
MSS Lab ID:	195589-002	Sampled:	06/21/07
Matrix:	Soil	Received:	06/22/07
Units:	ug/Kg	Prepared:	06/26/07
Basis:	as received	Analyzed:	06/26/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC393703

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<3.005	166.1	141.7	85	72-140

Surrogate	%REC	Limits
TCMX	84	63-141
Decachlorobiphenyl	89	50-158

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC393704

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1232	165.8	130.9	79	72-140	8	27

Surrogate	%REC	Limits
TCMX	77	63-141
Decachlorobiphenyl	79	50-158

RPD= Relative Percent Difference

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	195609	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	126646
MSS Lab ID:	195587-005	Sampled:	06/22/07
Matrix:	Soil	Received:	06/22/07
Units:	ug/Kg	Prepared:	06/26/07
Basis:	as received	Analyzed:	06/26/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC393803

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<3.641	165.9	192.1	116	72-140

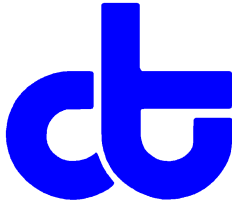
Surrogate	%REC	Limits
TCMX	65	63-141
Decachlorobiphenyl	60	50-158

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC393804

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1232	165.1	163.6	99	72-140	16	27

Surrogate	%REC	Limits
TCMX	72	63-141
Decachlorobiphenyl	70	50-158

RPD= Relative Percent Difference



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**Laboratory Job Number 195642**

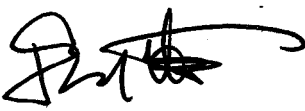
Questa Engineering Corporation	Project : 270025
1220 Brickyard Cove Road	Location : Former Larkspur Treatment Plant
Point Richmond, CA 94801	Level : II

<u>Sample ID</u>	<u>Lab ID</u>
G14 E@4.5	195642-001
G15 BE@7.0'	195642-002
G16 NW@4.5	195642-003
G17 NE@4.5	195642-004
G18 BN@7'	195642-005
G19 W@4.5	195642-006
G20 BW@7.0'	195642-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature:   
Project Manager

Date: 07/03/2007

Signature:   
Operations Manager

Date: 07/03/2007

### CASE NARRATIVE

Laboratory number: 195642  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 06/26/07  
Samples Received: 06/26/07

This hardcopy data package contains sample and QC results for seven soil samples, requested for the above referenced project on 06/26/07. The samples were received on ice and intact.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	195642	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/26/07
Units:	ug/Kg	Received:	06/26/07
Basis:	as received	Prepared:	06/28/07
Batch#:	126751		

Field ID:	G14 E@4.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/28/07
Lab ID:	195642-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	180	12
Aroclor-1260	260	12

Surrogate	%REC	Limits
TCMX	87	63-141
Decachlorobiphenyl	75	50-158

Field ID:	G15 BE@7.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/28/07
Lab ID:	195642-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	410	12
Aroclor-1260	570	12

Surrogate	%REC	Limits
TCMX	96	63-141
Decachlorobiphenyl	75	50-158

Field ID:	G16 NW@4.5	Diln Fac:	2.000
Type:	SAMPLE	Analyzed:	06/29/07
Lab ID:	195642-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	24
Aroclor-1221	ND	48
Aroclor-1232	ND	24
Aroclor-1242	ND	24
Aroclor-1248	ND	24
Aroclor-1254	1,000	24
Aroclor-1260	1,400	24

Surrogate	%REC	Limits
TCMX	107	63-141
Decachlorobiphenyl	114	50-158

ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	195642	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/26/07
Units:	ug/Kg	Received:	06/26/07
Basis:	as received	Prepared:	06/28/07
Batch#:	126751		

Field ID:	G17 NE@4.5	Diln Fac:	4.000
Type:	SAMPLE	Analyzed:	06/29/07
Lab ID:	195642-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	48
Aroclor-1221	ND	95
Aroclor-1232	ND	48
Aroclor-1242	ND	48
Aroclor-1248	ND	48
Aroclor-1254	2,800	48
Aroclor-1260	1,200	48

Surrogate	%REC	Limits
TCMX	114	63-141
Decachlorobiphenyl	123	50-158

Field ID:	G18 BN@7'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/28/07
Lab ID:	195642-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	80	12
Aroclor-1260	90	12

Surrogate	%REC	Limits
TCMX	103	63-141
Decachlorobiphenyl	84	50-158

Field ID:	G19 W@4.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/29/07
Lab ID:	195642-006	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	270	12
Aroclor-1260	300	12

Surrogate	%REC	Limits
TCMX	96	63-141
Decachlorobiphenyl	87	50-158

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	195642	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/26/07
Units:	ug/Kg	Received:	06/26/07
Basis:	as received	Prepared:	06/28/07
Batch#:	126751		

Field ID:	G20 BW@7.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	06/29/07
Lab ID:	195642-007	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	44	12
Aroclor-1260	54	12

Surrogate	%REC	Limits
TCMX	100	63-141
Decachlorobiphenyl	92	50-158

Type:	BLANK	Analyzed:	06/28/07
Lab ID:	QC394145	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	96	63-141
Decachlorobiphenyl	78	50-158

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	195642	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC394146	Batch#:	126751
Matrix:	Soil	Prepared:	06/28/07
Units:	ug/Kg	Analyzed:	06/28/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	165.0	149.5	91	68-138

Surrogate	%REC	Limits
TCMX	90	63-141
Decachlorobiphenyl	88	50-158

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	195642	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	126751
MSS Lab ID:	195629-011	Sampled:	06/25/07
Matrix:	Soil	Received:	06/26/07
Units:	ug/Kg	Prepared:	06/28/07
Basis:	as received	Analyzed:	06/28/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC394147

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<2.966	166.1	154.0	93	72-140

Surrogate	%REC	Limits
TCMX	98	63-141
Decachlorobiphenyl	88	50-158

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC394148

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1232	165.7	172.5	104	72-140	12	27

Surrogate	%REC	Limits
TCMX	104	63-141
Decachlorobiphenyl	104	50-158

RPD= Relative Percent Difference



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**Laboratory Job Number 197752**  
**ANALYTICAL REPORT**

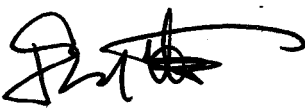
Questa Engineering Corporation	Project : 270025
1220 Brickyard Cove Road	Location : Former Larkspur Treatment Plant
Point Richmond, CA 94801	Level : II

<u>Sample ID</u>	<u>Lab ID</u>
H28 NW/SE 2.0'	197752-001
H29 NW/NECOR 2.0'	197752-002
H30 NW/NW 2.0'	197752-003
H31 NW/B 4.0'	197752-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:   
Project Manager

Date: 09/28/2007

Signature:   
Operations Manager

Date: 10/02/2007

#### CASE NARRATIVE

Laboratory number: 197752  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 09/20/07  
Samples Received: 09/20/07

This hardcopy data package contains sample and QC results for four soil samples, requested for the above referenced project on 09/20/07. The samples were received intact at ambient temperature.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	197752	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/20/07
Units:	ug/Kg	Received:	09/20/07
Basis:	as received	Prepared:	09/21/07
Batch#:	129722		

Field ID: H28 NW/SE 2.0'      Diln Fac: 1.000  
 Type: SAMPLE      Analyzed: 09/22/07  
 Lab ID: 197752-001

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	27	12
Aroclor-1260	54	12

Surrogate	%REC	Limits
TCMX	123	66-140
Decachlorobiphenyl	105	51-152

Field ID: H29 NW/NECOR 2.0'      Diln Fac: 5.000  
 Type: SAMPLE      Analyzed: 09/24/07  
 Lab ID: 197752-002

Analyte	Result	RL
Aroclor-1016	ND	42
Aroclor-1221	ND	83
Aroclor-1232	ND	42
Aroclor-1242	ND	42
Aroclor-1248	ND	42
Aroclor-1254	2,800	42
Aroclor-1260	3,300	42

Surrogate	%REC	Limits
TCMX	129	66-140
Decachlorobiphenyl	132	51-152

Field ID: H30 NW/NW 2.0'      Diln Fac: 1.000  
 Type: SAMPLE      Analyzed: 09/23/07  
 Lab ID: 197752-003

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	97	51-152

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197752	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/20/07
Units:	ug/Kg	Received:	09/20/07
Basis:	as received	Prepared:	09/21/07
Batch#:	129722		

Field ID:	H31 NW/B 4.0'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	09/23/07
Lab ID:	197752-004		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	16	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	105	51-152

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC407197	Analyzed:	09/22/07

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	111	51-152



## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	197752	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC407198	Batch#:	129722
Matrix:	Soil	Prepared:	09/21/07
Units:	ug/Kg	Analyzed:	09/22/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.2	184.9	111	69-142
Aroclor-1260	166.2	233.9	141	69-155

Surrogate	%REC	Limits
TCMX	93	66-140
Decachlorobiphenyl	133	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	197752	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	129722
MSS Lab ID:	197543-021	Sampled:	09/10/07
Matrix:	Soil	Received:	09/12/07
Units:	ug/Kg	Prepared:	09/21/07
Basis:	as received	Analyzed:	09/26/07
Diln Fac:	4.000		

Type: MS  
Lab ID: QC407199

Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<13.27	165.3	204.4	124	62-139
Aroclor-1260	840.3	165.3	1,676	506 NM	54-143

Surrogate	%REC	Limits
TCMX	117	66-140
Decachlorobiphenyl	117	51-152

Type: MSD  
Lab ID: QC407200

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.2	198.3	120	62-139	3	33
Aroclor-1260	165.2	1,437	361 NM	54-143	15	34

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	113	51-152

NM= Not Meaningful: Sample concentration > 4X spike concentration  
RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	197822	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/24/07
Units:	ug/Kg	Received:	09/24/07
Basis:	as received	Prepared:	09/25/07
Diln Fac:	1.000	Analyzed:	09/26/07
Batch#:	129855		

Field ID: G21WN@4.5'  
Type: SAMPLE

Lab ID: 197822-001  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	220	12
Aroclor-1260	340	12

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	83	51-152

Field ID: G22W@4.5'  
Type: SAMPLE

Lab ID: 197822-002  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	540	12
Aroclor-1260	710	12

Surrogate	%REC	Limits
TCMX	90	66-140
Decachlorobiphenyl	74	51-152

Field ID: G23WS@4.5'  
Type: SAMPLE

Lab ID: 197822-003  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	180	12
Aroclor-1260	180	12

Surrogate	%REC	Limits
TCMX	92	66-140
Decachlorobiphenyl	73	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197822	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/24/07
Units:	ug/Kg	Received:	09/24/07
Basis:	as received	Prepared:	09/25/07
Diln Fac:	1.000	Analyzed:	09/26/07
Batch#:	129855		

Field ID: G24BW@7.0'  
Type: SAMPLE

Lab ID: 197822-004  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	140	12
Aroclor-1260	71	12

Surrogate	%REC	Limits
TCMX	91	66-140
Decachlorobiphenyl	80	51-152

Type: BLANK  
Lab ID: QC407738

Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	91	51-152

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	197822	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC407739	Batch#:	129855
Matrix:	Soil	Prepared:	09/25/07
Units:	ug/Kg	Analyzed:	09/26/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.1	145.9	88	69-142
Aroclor-1260	165.1	134.0	81	69-155

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	78	51-152

### Polychlorinated Biphenyls (PCBs)

Lab #:	197856	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/25/07
Units:	ug/Kg	Received:	09/25/07
Basis:	as received	Prepared:	09/26/07
Diln Fac:	1.000	Analyzed:	09/27/07
Batch#:	129909		

Field ID: H32NECORNER@2 '  
Type: SAMPLE

Lab ID: 197856-001  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	23	12
Aroclor-1260	16	12

Surrogate	%REC	Limits
TCMX	79	66-140
Decachlorobiphenyl	86	51-152

Field ID: H33NECBOTTOM@5 '  
Type: SAMPLE

Lab ID: 197856-002  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	88	66-140
Decachlorobiphenyl	90	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197856	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/25/07
Units:	ug/Kg	Received:	09/25/07
Basis:	as received	Prepared:	09/26/07
Diln Fac:	1.000	Analyzed:	09/27/07
Batch#:	129909		

Field ID: H34NN@2' Lab ID: 197856-003  
Type: SAMPLE Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	34	12
Aroclor-1260	33	12

Surrogate	%REC	Limits
TCMX	79	66-140
Decachlorobiphenyl	95	51-152

Type: BLANK Cleanup Method: EPA 3665A  
Lab ID: QC407930

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	110	51-152

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	197856	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC407931	Batch#:	129909	
Matrix:	Soil	Prepared:	09/26/07	
Units:	ug/Kg	Analyzed:	09/27/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	164.5	144.8	88	69-142
Aroclor-1260	164.5	158.8	96	69-155

Surrogate	%REC	Limits
TCMX	73	66-140
Decachlorobiphenyl	100	51-152



### CASE NARRATIVE

Laboratory number: 197857  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 09/25/07  
Samples Received: 09/25/07

This hardcopy data package contains sample and QC results for ten soil samples, requested for the above referenced project on 09/25/07. The samples were received intact at ambient temperature.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	197857	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/25/07
Units:	ug/Kg	Received:	09/25/07
Basis:	as received	Prepared:	09/26/07
Batch#:	129909		

Field ID:	G25 EN@4.5'	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	09/28/07
Lab ID:	197857-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	41
Aroclor-1221	ND	82
Aroclor-1232	ND	41
Aroclor-1242	ND	41
Aroclor-1248	ND	41
Aroclor-1254	3,600	41
Aroclor-1260	1,900	41

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	97	51-152

Field ID:	G26 ES@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	09/27/07
Lab ID:	197857-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	440	12
Aroclor-1260	470	12

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	83	51-152

Field ID:	G27 E@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	09/27/07
Lab ID:	197857-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	220	12
Aroclor-1260	220	12

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	72	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197857	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/25/07
Units:	ug/Kg	Received:	09/25/07
Basis:	as received	Prepared:	09/26/07
Batch#:	129909		

Field ID:	G28 BE@8'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	09/27/07
Lab ID:	197857-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	330	12
Aroclor-1260	330	12

Surrogate	%REC	Limits
TCMX	91	66-140
Decachlorobiphenyl	70	51-152

Field ID:	G29 BEE@9'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	09/27/07
Lab ID:	197857-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	610	12
Aroclor-1260	780	12

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	82	51-152

Field ID:	G30 N(SW)@4.5'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	09/28/07
Lab ID:	197857-006	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	25
Aroclor-1221	ND	50
Aroclor-1232	ND	25
Aroclor-1242	ND	25
Aroclor-1248	ND	25
Aroclor-1254	1,400	25
Aroclor-1260	1,000	25

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	91	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197857	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/25/07
Units:	ug/Kg	Received:	09/25/07
Basis:	as received	Prepared:	09/26/07
Batch#:	129909		

Field ID:	G31 N(W)@4.5'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	09/28/07
Lab ID:	197857-007	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	25
Aroclor-1221	ND	50
Aroclor-1232	ND	25
Aroclor-1242	ND	25
Aroclor-1248	ND	25
Aroclor-1254	1,700	25
Aroclor-1260	1,200	25

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	88	51-152

Field ID:	G32 N(E)@4.5'	Diln Fac:	8.000
Type:	SAMPLE	Analyzed:	09/28/07
Lab ID:	197857-008	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	66
Aroclor-1221	ND	130
Aroclor-1232	ND	66
Aroclor-1242	ND	66
Aroclor-1248	ND	66
Aroclor-1254	3,800	66
Aroclor-1260	2,700	66

Surrogate	%REC	Limits
TCMX	117	66-140
Decachlorobiphenyl	107	51-152

Field ID:	G33 N(SE)@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	09/28/07
Lab ID:	197857-009	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	440	12
Aroclor-1260	310	12

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	81	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197857	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/25/07
Units:	ug/Kg	Received:	09/25/07
Basis:	as received	Prepared:	09/26/07
Batch#:	129909		

Field ID:	G34 BN@7'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	09/28/07
Lab ID:	197857-010	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	49	12
Aroclor-1260	50	12

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	71	51-152

Type:	BLANK	Analyzed:	09/27/07
Lab ID:	QC407930	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	110	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	197857	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC407931	Batch#:	129909	
Matrix:	Soil	Prepared:	09/26/07	
Units:	ug/Kg	Analyzed:	09/27/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	164.5	144.8	88	69-142
Aroclor-1260	164.5	158.8	96	69-155

Surrogate	%REC	Limits
TCMX	73	66-140
Decachlorobiphenyl	100	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	197857	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	129909
MSS Lab ID:	197871-001	Sampled:	09/20/07
Matrix:	Soil	Received:	09/21/07
Units:	ug/Kg	Prepared:	09/26/07
Basis:	as received	Analyzed:	09/27/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC407932

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<3.303	164.5	171.8	104	62-139
Aroclor-1260	<3.352	164.5	153.0	93	54-143

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	88	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC407933

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.8	164.8	99	62-139	5	33
Aroclor-1260	165.8	150.3	91	54-143	3	34

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	82	51-152

RPD= Relative Percent Difference

### CASE NARRATIVE

Laboratory number: 197879  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 09/26/07  
Samples Received: 09/26/07

This hardcopy data package contains sample and QC results for three soil samples, requested for the above referenced project on 09/26/07. The samples were received cold and intact.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.



### Polychlorinated Biphenyls (PCBs)

Lab #:	197879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/26/07
Units:	ug/Kg	Received:	09/26/07
Basis:	as received	Prepared:	09/26/07
Diln Fac:	1.000	Analyzed:	09/27/07
Batch#:	129909		

Field ID: H35ECORNER@2.0'  
Type: SAMPLE

Lab ID: 197879-001  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	240	12
Aroclor-1260	260	12

Surrogate	%REC	Limits
TCMX	79	66-140
Decachlorobiphenyl	63	51-152

Field ID: H36SESIDEWALL@2.0'  
Type: SAMPLE

Lab ID: 197879-002  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	36	12
Aroclor-1260	40	12

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	79	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/26/07
Units:	ug/Kg	Received:	09/26/07
Basis:	as received	Prepared:	09/26/07
Diln Fac:	1.000	Analyzed:	09/27/07
Batch#:	129909		

Field ID: H37EB@4.0' Lab ID: 197879-003  
Type: SAMPLE Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	76	66-140
Decachlorobiphenyl	82	51-152

Type: BLANK Cleanup Method: EPA 3665A  
Lab ID: QC407930

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	110	51-152

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	197879	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC407931	Batch#:	129909	
Matrix:	Soil	Prepared:	09/26/07	
Units:	ug/Kg	Analyzed:	09/27/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	164.5	144.8	88	69-142
Aroclor-1260	164.5	158.8	96	69-155

Surrogate	%REC	Limits
TCMX	73	66-140
Decachlorobiphenyl	100	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	197879	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	129909
MSS Lab ID:	197871-001	Sampled:	09/20/07
Matrix:	Soil	Received:	09/21/07
Units:	ug/Kg	Prepared:	09/26/07
Basis:	as received	Analyzed:	09/27/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC407932

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<3.303	164.5	171.8	104	62-139
Aroclor-1260	<3.352	164.5	153.0	93	54-143

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	88	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC407933

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.8	164.8	99	62-139	5	33
Aroclor-1260	165.8	150.3	91	54-143	3	34

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	82	51-152

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	197995	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/01/07
Units:	ug/Kg	Received:	10/01/07
Basis:	as received	Prepared:	10/02/07
Batch#:	130093		

Field ID: QTP-G4E@4.5'      Diln Fac: 10.00  
Type: SAMPLE      Analyzed: 10/03/07  
Lab ID: 197995-001      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	83
Aroclor-1221	ND	170
Aroclor-1232	ND	83
Aroclor-1242	ND	83
Aroclor-1248	ND	83
Aroclor-1254	6,300	83
Aroclor-1260	7,100	83

Surrogate	%REC	Limits
TCMX	DO	66-140
Decachlorobiphenyl	DO	51-152

Field ID: QTP-G5SE@4.5'      Diln Fac: 1.000  
Type: SAMPLE      Analyzed: 10/03/07  
Lab ID: 197995-002      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	48	12
Aroclor-1260	63	12

Surrogate	%REC	Limits
TCMX	93	66-140
Decachlorobiphenyl	90	51-152

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197995	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/01/07
Units:	ug/Kg	Received:	10/01/07
Basis:	as received	Prepared:	10/02/07
Batch#:	130093		

Field ID:	QTP-G6SW@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	10/03/07
Lab ID:	197995-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	130	12
Aroclor-1260	150	12

Surrogate	%REC	Limits
TCMX	87	66-140
Decachlorobiphenyl	89	51-152

Field ID:	QTP-G7W@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	10/03/07
Lab ID:	197995-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	270	12
Aroclor-1260	92	12

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	105	51-152

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197995	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/01/07
Units:	ug/Kg	Received:	10/01/07
Basis:	as received	Prepared:	10/02/07
Batch#:	130093		

Field ID:	QTP-G8NW@4.5'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	10/03/07
Lab ID:	197995-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	25
Aroclor-1221	ND	50
Aroclor-1232	ND	25
Aroclor-1242	ND	25
Aroclor-1248	ND	25
Aroclor-1254	1,700	25
Aroclor-1260	2,200	25

Surrogate	%REC	Limits
TCMX	112	66-140
Decachlorobiphenyl	102	51-152

Field ID:	QTP-G9NE@4.5'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	10/03/07
Lab ID:	197995-006	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	25
Aroclor-1221	ND	50
Aroclor-1232	ND	25
Aroclor-1242	ND	25
Aroclor-1248	ND	25
Aroclor-1254	1,800	25
Aroclor-1260	1,900	25

Surrogate	%REC	Limits
TCMX	88	66-140
Decachlorobiphenyl	91	51-152

DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	197995	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/01/07
Units:	ug/Kg	Received:	10/01/07
Basis:	as received	Prepared:	10/02/07
Batch#:	130093		

Field ID:	QTP-G10N@4.5'	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	10/03/07
Lab ID:	197995-007	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	41
Aroclor-1221	ND	83
Aroclor-1232	ND	41
Aroclor-1242	ND	41
Aroclor-1248	ND	41
Aroclor-1254	3,000	41
Aroclor-1260	2,700	41

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	117	51-152

Type:	BLANK	Analyzed:	10/02/07
Lab ID:	QC408664	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	87	66-140
Decachlorobiphenyl	111	51-152

DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit



## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	197995	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC408665	Batch#:	130093	
Matrix:	Soil	Prepared:	10/02/07	
Units:	ug/Kg	Analyzed:	10/02/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.4	136.1	82	69-142
Aroclor-1260	166.4	172.1	103	69-155

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	117	51-152

### Polychlorinated Biphenyls (PCBs)

Lab #:	198181	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/08/07
Units:	ug/Kg	Received:	10/08/07
Basis:	as received	Prepared:	10/09/07
Batch#:	130335		

Field ID:	G35 WS@4.5	Diln Fac:	2.000
Type:	SAMPLE	Analyzed:	10/10/07
Lab ID:	198181-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	16
Aroclor-1221	ND	33
Aroclor-1232	ND	16
Aroclor-1242	ND	16
Aroclor-1248	ND	16
Aroclor-1254	1,000	16
Aroclor-1260	1,100	16

Surrogate	%REC	Limits
TCMX	92	66-140
Decachlorobiphenyl	92	51-152

Field ID:	G36 WN COR@4.5	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	10/10/07
Lab ID:	198181-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	41
Aroclor-1221	ND	82
Aroclor-1232	ND	41
Aroclor-1242	ND	41
Aroclor-1248	ND	41
Aroclor-1254	1,900	41
Aroclor-1260	2,000	41

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	102	51-152

Field ID:	G37 WN@4.5	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	10/10/07
Lab ID:	198181-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	25
Aroclor-1221	ND	50
Aroclor-1232	ND	25
Aroclor-1242	ND	25
Aroclor-1248	ND	25
Aroclor-1254	1,400	25
Aroclor-1260	1,800	25

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	95	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198181	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/08/07
Units:	ug/Kg	Received:	10/08/07
Basis:	as received	Prepared:	10/09/07
Batch#:	130335		

Field ID:	G38 BOT W@7	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	10/09/07
Lab ID:	198181-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	350	12
Aroclor-1260	440	12

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	84	51-152

Field ID:	G39 BOT WS@7	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	10/09/07
Lab ID:	198181-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	92	66-140
Decachlorobiphenyl	101	51-152

Field ID:	G40 BOT NSW@7	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	10/09/07
Lab ID:	198181-006	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	580	12
Aroclor-1260	410	12

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	62	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198181	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/08/07
Units:	ug/Kg	Received:	10/08/07
Basis:	as received	Prepared:	10/09/07
Batch#:	130335		

Field ID:	G41 BOT N@7.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	10/09/07
Lab ID:	198181-007	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	78	12
Aroclor-1260	79	12

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	92	51-152

Field ID:	G42 NW@4.5	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	10/10/07
Lab ID:	198181-008	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	41
Aroclor-1221	ND	82
Aroclor-1232	ND	41
Aroclor-1242	ND	41
Aroclor-1248	ND	41
Aroclor-1254	1,400	41
Aroclor-1260	1,600	41

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	92	51-152

Field ID:	G43 NN@4.5	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	10/10/07
Lab ID:	198181-009	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	42
Aroclor-1221	ND	83
Aroclor-1232	ND	42
Aroclor-1242	ND	42
Aroclor-1248	ND	42
Aroclor-1254	1,500	42
Aroclor-1260	1,600	42

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	111	51-152

ND= Not Detected  
RL= Reporting Limit

Polychlorinated Biphenyls (PCBs)		
Lab #:	198181	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	270025	Analysis: EPA 8082
Matrix:	Soil	Sampled: 10/08/07
Units:	ug/Kg	Received: 10/08/07
Basis:	as received	Prepared: 10/09/07
Batch#:	130335	

Type:	BLANK	Analyzed:	10/09/07
Lab ID:	QC409658	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	108	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	198181	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC409659	Batch#:	130335	
Matrix:	Soil	Prepared:	10/09/07	
Units:	ug/Kg	Analyzed:	10/09/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.6	156.9	95	69-142
Aroclor-1260	165.6	172.7	104	69-155

Surrogate	%REC	Limits
TCMX	81	66-140
Decachlorobiphenyl	95	51-152

### CASE NARRATIVE

Laboratory number: 198365  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 10/15/07  
Samples Received: 10/15/07

This hardcopy data package contains sample and QC results for four soil samples, requested for the above referenced project on 10/15/07. The samples were received on ice and intact.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.

Polychlorinated Biphenyls (PCBs)		
Lab #:	198365	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	270025	Analysis: EPA 8082
Matrix:	Soil	Batch#: 130646
Units:	ug/Kg	Sampled: 10/15/07
Basis:	as received	Received: 10/15/07
Diln Fac:	1.000	Prepared: 10/17/07

Field ID: G54BOTSW@6'  
Type: SAMPLE  
Lab ID: 198365-001

Analyzed: 10/19/07  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	190	12
Aroclor-1260	290	12

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	89	51-152

Field ID: G55SESW@6.5'  
Type: SAMPLE  
Lab ID: 198365-002

Analyzed: 10/19/07  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	36	12
Aroclor-1260	46	12

Surrogate	%REC	Limits
TCMX	93	66-140
Decachlorobiphenyl	82	51-152

Field ID: G56SEBOT@7'  
Type: SAMPLE  
Lab ID: 198365-003

Analyzed: 10/19/07  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	480	12
Aroclor-1260	730	12

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	97	51-152

ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	198365	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	130646
Units:	ug/Kg	Sampled:	10/15/07
Basis:	as received	Received:	10/15/07
Diln Fac:	1.000	Prepared:	10/17/07

Field ID: G57SESE@6.5'      Analyzed: 10/19/07  
Type: SAMPLE      Cleanup Method: EPA 3665A  
Lab ID: 198365-004

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	80	12
Aroclor-1260	150	12

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	92	51-152

Type: BLANK      Analyzed: 10/18/07  
Lab ID: QC410976      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	115	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	198365	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC410977	Batch#:	130646	
Matrix:	Soil	Prepared:	10/17/07	
Units:	ug/Kg	Analyzed:	10/18/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.1	167.8	101	69-142
Aroclor-1260	166.1	173.7	105	69-155

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	110	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	198365	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	130646
MSS Lab ID:	198381-006	Sampled:	10/15/07
Matrix:	Soil	Received:	10/15/07
Units:	ug/Kg	Prepared:	10/17/07
Basis:	as received	Analyzed:	10/18/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC410978

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<1.131	165.6	173.4	105	62-139
Aroclor-1260	<3.245	165.6	166.2	100	54-143

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	101	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC410979

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.8	184.4	111	62-139	6	33
Aroclor-1260	165.8	173.5	105	54-143	4	34

Surrogate	%REC	Limits
TCMX	119	66-140
Decachlorobiphenyl	106	51-152

RPD= Relative Percent Difference

#### CASE NARRATIVE

Laboratory number: 198564  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 10/19/07  
Samples Received: 10/19/07

This hardcopy data package contains sample and QC results for four soil samples, requested for the above referenced project on 10/19/07. The samples were received intact at ambient temperature.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	198564	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	130816
Units:	ug/Kg	Sampled:	10/19/07
Basis:	as received	Received:	10/19/07
Diln Fac:	1.000	Prepared:	10/23/07

Field ID: QTR-G1-N@4'  
 Type: SAMPLE  
 Lab ID: 198564-001

Analyzed: 10/24/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	110	51-152

Field ID: QTR-G1-SW-W@5'  
 Type: SAMPLE  
 Lab ID: 198564-002

Analyzed: 10/24/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	129	51-152

Field ID: QTR-G2-W@6.5'  
 Type: SAMPLE  
 Lab ID: 198564-003

Analyzed: 10/24/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	113	51-152

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198564	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	130816
Units:	ug/Kg	Sampled:	10/19/07
Basis:	as received	Received:	10/19/07
Diln Fac:	1.000	Prepared:	10/23/07

Field ID: QTR-G2-N@4.5'      Analyzed: 10/24/07  
Type: SAMPLE      Cleanup Method: EPA 3665A  
Lab ID: 198564-004

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	12	12

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	124	51-152

Type: BLANK      Analyzed: 10/23/07  
Lab ID: QC411676      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	93	66-140
Decachlorobiphenyl	102	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	198564	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC411677	Batch#:	130816
Matrix:	Soil	Prepared:	10/23/07
Units:	ug/Kg	Analyzed:	10/23/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.3	147.7	89	69-142
Aroclor-1260	166.3	164.6	99	69-155

Surrogate	%REC	Limits
TCMX	87	66-140
Decachlorobiphenyl	87	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	198564	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	130816
MSS Lab ID:	198326-004	Sampled:	10/12/07
Matrix:	Soil	Received:	10/12/07
Units:	ug/Kg	Prepared:	10/23/07
Basis:	as received	Analyzed:	10/23/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC411678

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.864	166.4	153.2	92	62-139
Aroclor-1260	<3.821	166.4	161.6	97	54-143

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	109	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC411679

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.3	145.1	87	62-139	5	33
Aroclor-1260	166.3	148.8	90	54-143	8	34

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	100	51-152

RPD= Relative Percent Difference



### Polychlorinated Biphenyls (PCBs)

Lab #:	198721	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/25/07
Units:	ug/Kg	Received:	10/25/07
Basis:	as received	Prepared:	10/29/07
Batch#:	131043		

Field ID:	G58 BOT@9.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	10/30/07
Lab ID:	198721-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	360	12
Aroclor-1260	710	12

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	101	51-152

Field ID:	G59 BOT@9.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	10/30/07
Lab ID:	198721-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	160	12
Aroclor-1260	260	12

Surrogate	%REC	Limits
TCMX	91	66-140
Decachlorobiphenyl	81	51-152

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198721	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/25/07
Units:	ug/Kg	Received:	10/25/07
Basis:	as received	Prepared:	10/29/07
Batch#:	131043		

Field ID: G60 BOT SEN@8' Diln Fac: 1.000  
Type: SAMPLE Analyzed: 10/30/07  
Lab ID: 198721-003 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	140	12
Aroclor-1260	400	12

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	101	51-152

Field ID: G61 BOT SES@8' Diln Fac: 1.000  
Type: SAMPLE Analyzed: 10/30/07  
Lab ID: 198721-004 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	130	12
Aroclor-1260	180	12

Surrogate	%REC	Limits
TCMX	123	66-140
Decachlorobiphenyl	111	51-152

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198721	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/25/07
Units:	ug/Kg	Received:	10/25/07
Basis:	as received	Prepared:	10/29/07
Batch#:	131043		

Field ID: G62 SE@4.5' Diln Fac: 1.000  
Type: SAMPLE Analyzed: 10/30/07  
Lab ID: 198721-005 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	240	12
Aroclor-1260	450	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	85	51-152

Field ID: G63 SE@4.5' Diln Fac: 10.00  
Type: SAMPLE Analyzed: 10/31/07  
Lab ID: 198721-006 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	82
Aroclor-1221	ND	160
Aroclor-1232	ND	82
Aroclor-1242	ND	82
Aroclor-1248	ND	82
Aroclor-1254	3,400	82
Aroclor-1260	4,800	82

Surrogate	%REC	Limits
TCMX	DO	66-140
Decachlorobiphenyl	DO	51-152

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198721	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/25/07
Units:	ug/Kg	Received:	10/25/07
Basis:	as received	Prepared:	10/29/07
Batch#:	131043		

Field ID: G64 SE@4.5' Diln Fac: 1.000  
Type: SAMPLE Analyzed: 10/30/07  
Lab ID: 198721-007 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	380	12
Aroclor-1260	680	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	80	51-152

Field ID: G65 SE@4.5' Diln Fac: 4.000  
Type: SAMPLE Analyzed: 10/31/07  
Lab ID: 198721-008 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	33
Aroclor-1221	ND	66
Aroclor-1232	ND	33
Aroclor-1242	ND	33
Aroclor-1248	ND	33
Aroclor-1254	1,200	33
Aroclor-1260	2,100	33

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	101	51-152

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198721	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/25/07
Units:	ug/Kg	Received:	10/25/07
Basis:	as received	Prepared:	10/29/07
Batch#:	131043		

Field ID:	G66 E@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	10/30/07
Lab ID:	198721-009	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	32	12
Aroclor-1260	49	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	83	51-152

Type:	BLANK	Analyzed:	10/30/07
Lab ID:	QC412640	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	83	66-140
Decachlorobiphenyl	95	51-152

DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	198721	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC412641	Batch#:	131043	
Matrix:	Soil	Prepared:	10/29/07	
Units:	ug/Kg	Analyzed:	10/30/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.7	149.0	89	69-142
Aroclor-1260	166.7	163.0	98	69-155

Surrogate	%REC	Limits
TCMX	92	66-140
Decachlorobiphenyl	105	51-152

### Polychlorinated Biphenyls (PCBs)

Lab #:	198757	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	131043
Units:	ug/Kg	Sampled:	10/26/07
Basis:	as received	Received:	10/26/07
Diln Fac:	1.000	Prepared:	10/29/07

Field ID: G67 NE@4.5 Analyzed: 10/29/07  
Type: SAMPLE Cleanup Method: EPA 3665A  
Lab ID: 198757-001

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	13	12

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	90	51-152

Field ID: G68 NE@4.5 Analyzed: 10/29/07  
Type: SAMPLE Cleanup Method: EPA 3665A  
Lab ID: 198757-002

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	120	12
Aroclor-1260	240	12

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	85	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198757	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	131043
Units:	ug/Kg	Sampled:	10/26/07
Basis:	as received	Received:	10/26/07
Diln Fac:	1.000	Prepared:	10/29/07

Field ID: G69 N@4.5 Analyzed: 10/29/07  
Type: SAMPLE Cleanup Method: EPA 3665A  
Lab ID: 198757-003

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	123	66-140
Decachlorobiphenyl	113	51-152

Type: BLANK Analyzed: 10/30/07  
Lab ID: QC412640 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	83	66-140
Decachlorobiphenyl	95	51-152

ND= Not Detected  
RL= Reporting Limit



## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	198757	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC412641	Batch#:	131043	
Matrix:	Soil	Prepared:	10/29/07	
Units:	ug/Kg	Analyzed:	10/30/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.7	149.0	89	69-142
Aroclor-1260	166.7	163.0	98	69-155

Surrogate	%REC	Limits
TCMX	92	66-140
Decachlorobiphenyl	105	51-152

#### CASE NARRATIVE

Laboratory number: 198873  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 10/31/07  
Samples Received: 10/31/07

This hardcopy data package contains sample and QC results for three soil samples, requested for the above referenced project on 10/31/07. The samples were received cold and intact.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	198873	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/31/07
Units:	ug/Kg	Received:	10/31/07
Basis:	as received	Prepared:	11/01/07
Batch#:	131185		

Field ID:	G70@8.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/01/07
Lab ID:	198873-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	200	12
Aroclor-1260	190	12

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	92	51-152

Field ID:	G71@9.5'	Diln Fac:	2.000
Type:	SAMPLE	Analyzed:	11/02/07
Lab ID:	198873-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	17
Aroclor-1221	ND	33
Aroclor-1232	ND	17
Aroclor-1242	ND	17
Aroclor-1248	ND	17
Aroclor-1254	1,000	17
Aroclor-1260	930	17

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	114	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198873	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/31/07
Units:	ug/Kg	Received:	10/31/07
Basis:	as received	Prepared:	11/01/07
Batch#:	131185		

Field ID: G72@8' Diln Fac: 1.000  
Type: SAMPLE Analyzed: 11/01/07  
Lab ID: 198873-003 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	330	12
Aroclor-1260	410	12

Surrogate	%REC	Limits
TCMX	118	66-140
Decachlorobiphenyl	101	51-152

Type: BLANK Analyzed: 11/01/07  
Lab ID: QC413207 Cleanup Method: EPA 3665A  
Diln Fac: 1.000

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	110	51-152

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	198873	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC413208	Batch#:	131185	
Matrix:	Soil	Prepared:	11/01/07	
Units:	ug/Kg	Analyzed:	11/01/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.4	203.3	123	69-142
Aroclor-1260	165.4	212.0	128	69-155

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	112	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	198873	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	131185
MSS Lab ID:	198838-011	Sampled:	10/30/07
Matrix:	Soil	Received:	10/31/07
Units:	ug/Kg	Prepared:	11/01/07
Basis:	as received	Analyzed:	11/02/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC413209

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<1.130	164.7	187.5	114	62-139
Aroclor-1260	560.6	164.7	742.8	111	54-143

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	102	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC413210

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.0	201.9	122	62-139	7	33
Aroclor-1260	165.0	718.4	96	54-143	3	34

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	111	51-152

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	198906	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	as received	Prepared:	11/02/07
Batch#:	131254		

Field ID:	QTP CL#3-1@3'	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	11/03/07
Lab ID:	198906-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	41
Aroclor-1221	ND	82
Aroclor-1232	ND	41
Aroclor-1242	ND	41
Aroclor-1248	ND	41
Aroclor-1254	2,000	41
Aroclor-1260	2,200	41

Surrogate	%REC	Limits
TCMX	94	66-140
Decachlorobiphenyl	121	51-152

Field ID:	QTP CL#3-1@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/03/07
Lab ID:	198906-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	92	66-140
Decachlorobiphenyl	82	51-152

Field ID:	QTP CL#3-1@6'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/03/07
Lab ID:	198906-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	121	66-140
Decachlorobiphenyl	113	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198906	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/01/07
Units:	ug/Kg	Received:	11/01/07
Basis:	as received	Prepared:	11/02/07
Batch#:	131254		

Field ID:	QTP CL#3-2@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/03/07
Lab ID:	198906-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	111	66-140
Decachlorobiphenyl	109	51-152

Field ID:	QTP CL#3-2@3'	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	11/03/07
Lab ID:	198906-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	41
Aroclor-1221	ND	83
Aroclor-1232	ND	41
Aroclor-1242	ND	41
Aroclor-1248	ND	41
Aroclor-1254	2,100	41
Aroclor-1260	2,700	41

Surrogate	%REC	Limits
TCMX	93	66-140
Decachlorobiphenyl	117	51-152

Type:	BLANK	Analyzed:	11/02/07
Lab ID:	QC413485	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	115	51-152

ND= Not Detected  
RL= Reporting Limit



## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	198906	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC413486	Batch#:	131254	
Matrix:	Soil	Prepared:	11/02/07	
Units:	ug/Kg	Analyzed:	11/02/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.5	202.3	122	69-142
Aroclor-1260	165.5	205.3	124	69-155

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	104	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	198906	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	131254
MSS Lab ID:	198916-005	Sampled:	11/01/07
Matrix:	Soil	Received:	11/02/07
Units:	ug/Kg	Prepared:	11/02/07
Basis:	as received	Analyzed:	11/02/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC413487

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<1.137	165.8	193.1	116	62-139
Aroclor-1260	14.76	165.8	221.7	125	54-143

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	102	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC413488

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.6	203.5	122	62-139	5	33
Aroclor-1260	166.6	220.4	123	54-143	1	34

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	94	51-152

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	198907	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	131254
Units:	ug/Kg	Sampled:	11/01/07
Basis:	as received	Received:	11/01/07
Diln Fac:	1.000	Prepared:	11/02/07

Field ID: G73@11.5'  
 Type: SAMPLE  
 Lab ID: 198907-001

Analyzed: 11/03/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	52	12
Aroclor-1260	66	12

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	105	51-152

Field ID: G74@11.5'  
 Type: SAMPLE  
 Lab ID: 198907-002

Analyzed: 11/03/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	34	12
Aroclor-1260	51	12

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	97	51-152

Type: BLANK  
 Lab ID: QC413485

Analyzed: 11/02/07  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	115	51-152

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	198907	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC413486	Batch#:	131254	
Matrix:	Soil	Prepared:	11/02/07	
Units:	ug/Kg	Analyzed:	11/02/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.5	202.3	122	69-142
Aroclor-1260	165.5	205.3	124	69-155

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	104	51-152

### CASE NARRATIVE

Laboratory number: 198950  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 11/02/07  
Samples Received: 11/02/07

This hardcopy data package contains sample and QC results for thirteen soil samples, requested for the above referenced project on 11/02/07. The samples were received intact at ambient temperature.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	198950	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/02/07
Units:	ug/Kg	Received:	11/02/07
Basis:	as received	Prepared:	11/05/07
Batch#:	131336		

Field ID:	QTP BF#3-1@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/06/07
Lab ID:	198950-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	100	12
Aroclor-1260	79	12

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	91	51-152

Field ID:	QTP BF#3-1@5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/06/07
Lab ID:	198950-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	127	66-140
Decachlorobiphenyl	114	51-152

Field ID:	QTP BF#3-2@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/06/07
Lab ID:	198950-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	39	12
Aroclor-1260	57	12

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	96	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198950	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/02/07
Units:	ug/Kg	Received:	11/02/07
Basis:	as received	Prepared:	11/05/07
Batch#:	131336		

Field ID:	QTP BF#3-2@5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/06/07
Lab ID:	198950-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	85	51-152

Field ID:	QTP BF#3-3@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/06/07
Lab ID:	198950-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	290	12
Aroclor-1260	370	12

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	74	51-152

Field ID:	QTP BF#3-3@6'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198950-006	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	22	12
Aroclor-1260	17	12

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	76	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198950	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/02/07
Units:	ug/Kg	Received:	11/02/07
Basis:	as received	Prepared:	11/05/07
Batch#:	131336		

Field ID:	QTP BF#3-4@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198950-007	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	430	12
Aroclor-1260	320	12

Surrogate	%REC	Limits
TCMX	118	66-140
Decachlorobiphenyl	87	51-152

Field ID:	QTP BF#3-4@5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198950-008	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	95	51-152

Field ID:	QTP BF#1-1@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198950-009	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	130	12
Aroclor-1260	170	12

Surrogate	%REC	Limits
TCMX	120	66-140
Decachlorobiphenyl	89	51-152

ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	198950	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/02/07
Units:	ug/Kg	Received:	11/02/07
Basis:	as received	Prepared:	11/05/07
Batch#:	131336		

Field ID:	QTP BF#1-1@4'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	11/08/07
Lab ID:	198950-010	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	25
Aroclor-1221	ND	50
Aroclor-1232	ND	25
Aroclor-1242	ND	25
Aroclor-1248	ND	25
Aroclor-1254	1,400	25
Aroclor-1260	2,000	25

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	112	51-152

Field ID:	QTP BF#1-1@5.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198950-011	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	107	51-152

Field ID:	QTP BF#2-1@3'	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	11/08/07
Lab ID:	198950-012	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	41
Aroclor-1221	ND	83
Aroclor-1232	ND	41
Aroclor-1242	ND	41
Aroclor-1248	ND	41
Aroclor-1254	2,100	41
Aroclor-1260	2,000	41

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	101	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198950	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/02/07
Units:	ug/Kg	Received:	11/02/07
Basis:	as received	Prepared:	11/05/07
Batch#:	131336		

Field ID:	QTP BF#2-1@5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198950-013	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	117	66-140
Decachlorobiphenyl	88	51-152

Type:	BLANK	Analyzed:	11/06/07
Lab ID:	QC413804	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	109	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	198950	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC413805	Batch#:	131336	
Matrix:	Soil	Prepared:	11/05/07	
Units:	ug/Kg	Analyzed:	11/06/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.1	192.2	116	69-142
Aroclor-1260	166.1	211.8	128	69-155

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	105	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	198950	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	131336
MSS Lab ID:	198970-032	Sampled:	11/05/07
Matrix:	Soil	Received:	11/05/07
Units:	ug/Kg	Prepared:	11/05/07
Basis:	as received	Analyzed:	11/06/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC413806

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<1.132	165.3	195.6	118	62-139
Aroclor-1260	3.507	165.3	167.1	99	54-143

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	78	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC413807

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.1	205.7	124	62-139	5	33
Aroclor-1260	166.1	178.4	105	54-143	6	34

Surrogate	%REC	Limits
TCMX	116	66-140
Decachlorobiphenyl	79	51-152

RPD= Relative Percent Difference

## CASE NARRATIVE

Laboratory number: 198980  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 11/05/07  
Samples Received: 11/05/07

This hardcopy data package contains sample and QC results for eleven soil samples, requested for the above referenced project on 11/05/07. The samples were received cold and intact.

### Polychlorinated Biphenyls (PCBs) (EPA 8082):

High surrogate recovery was observed for decachlorobiphenyl in QTPPL-1@5.5' (lab # 198980-009); the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample. No other analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	198980	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/07
Units:	ug/Kg	Received:	11/05/07
Basis:	as received	Prepared:	11/06/07
Batch#:	131384		

Field ID:	QTPCL#1-1@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198980-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	122	51-152

Field ID:	QTPCL#1-1@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198980-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	76	12
Aroclor-1260	98	12

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	118	51-152

\*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198980	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/07
Units:	ug/Kg	Received:	11/05/07
Basis:	as received	Prepared:	11/06/07
Batch#:	131384		

Field ID:	QTPCL#1-1@6'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198980-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	160	12
Aroclor-1260	220	12

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	110	51-152

Field ID:	QTPSD1@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198980-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	48	12
Aroclor-1260	35	12

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	103	51-152

\*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198980	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/07
Units:	ug/Kg	Received:	11/05/07
Basis:	as received	Prepared:	11/06/07
Batch#:	131384		

Field ID:	QTPSD1@5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/08/07
Lab ID:	198980-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	22	12
Aroclor-1260	29	12

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	112	51-152

Field ID:	QTPAZ-1@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198980-006	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	105	66-140
Decachlorobiphenyl	142	51-152

\*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	198980	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/07
Units:	ug/Kg	Received:	11/05/07
Basis:	as received	Prepared:	11/06/07
Batch#:	131384		

Field ID:	QTPAZ-1@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/08/07
Lab ID:	198980-007	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	116	51-152

Field ID:	QTPPL-1@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/08/07
Lab ID:	198980-008	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	220	12
Aroclor-1260	580	12

Surrogate	%REC	Limits
TCMX	118	66-140
Decachlorobiphenyl	122	51-152

\*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198980	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/07
Units:	ug/Kg	Received:	11/05/07
Basis:	as received	Prepared:	11/06/07
Batch#:	131384		

Field ID: QTPPL-1@5.5'      Diln Fac: 1.000  
Type: SAMPLE      Analyzed: 11/07/07  
Lab ID: 198980-009      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	158 *	51-152

Field ID: QTPCL#1-1@8'      Diln Fac: 100.0  
Type: SAMPLE      Analyzed: 11/07/07  
Lab ID: 198980-010      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	830
Aroclor-1221	ND	1,700
Aroclor-1232	ND	830
Aroclor-1242	ND	830
Aroclor-1248	ND	830
Aroclor-1254	15,000	830
Aroclor-1260	38,000	830

Surrogate	%REC	Limits
TCMX	DO	66-140
Decachlorobiphenyl	DO	51-152

\*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	198980	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/07
Units:	ug/Kg	Received:	11/05/07
Basis:	as received	Prepared:	11/06/07
Batch#:	131384		

Field ID:	QTPCL#1-1@10'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/07/07
Lab ID:	198980-011	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	24	12
Aroclor-1260	34	12

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	101	51-152

Type:	BLANK	Analyzed:	11/07/07
Lab ID:	QC413992	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	105	66-140
Decachlorobiphenyl	108	51-152

\*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	198980	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC413993	Batch#:	131384	
Matrix:	Soil	Prepared:	11/06/07	
Units:	ug/Kg	Analyzed:	11/07/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.1	152.5	92	69-142
Aroclor-1260	165.1	162.4	98	69-155

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	101	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	198980	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	198790-002	Batch#:	131384
Matrix:	Soil	Sampled:	10/29/07
Units:	ug/Kg	Received:	10/29/07
Basis:	as received	Prepared:	11/06/07

Type: MS Analyzed: 11/08/07  
Lab ID: QC413994 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<3.304	166.5	172.7	104	62-139
Aroclor-1260	7.559	166.5	160.9	92	54-143

Surrogate	%REC	Limits
TCMX	72	66-140
Decachlorobiphenyl	81	51-152

Type: MSD Analyzed: 11/09/07  
Lab ID: QC413995 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.6	176.7	107	62-139	3	33
Aroclor-1260	165.6	170.2	98	54-143	6	34

Surrogate	%REC	Limits
TCMX	77	66-140
Decachlorobiphenyl	85	51-152

RPD= Relative Percent Difference

### CASE NARRATIVE

Laboratory number: 199052  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 11/07/07  
Samples Received: 11/07/07

This hardcopy data package contains sample and QC results for nine soil samples, requested for the above referenced project on 11/07/07. The samples were received intact at ambient temperature.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	199052	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Sampled:	11/07/07
Basis:	as received	Received:	11/07/07

Field ID: QTP-PP-1@3'	Prepared: 11/10/07
Type: SAMPLE	Analyzed: 11/12/07
Lab ID: 199052-001	Cleanup Method: EPA 3665A
Batch#: 131568	

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	700	12
Aroclor-1260	580	12

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	98	51-152

Field ID: QTP-PP-1@5'	Prepared: 11/10/07
Type: SAMPLE	Analyzed: 11/12/07
Lab ID: 199052-002	Cleanup Method: EPA 3665A
Batch#: 131568	

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	280	12
Aroclor-1260	220	12

Surrogate	%REC	Limits
TCMX	105	66-140
Decachlorobiphenyl	98	51-152

### Polychlorinated Biphenyls (PCBs)

Lab #:	199052	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Sampled:	11/07/07
Basis:	as received	Received:	11/07/07

Field ID:	QTP-PP-1@6.5'	Prepared:	11/10/07
Type:	SAMPLE	Analyzed:	11/12/07
Lab ID:	199052-003	Cleanup Method:	EPA 3665A
Batch#:	131568		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	400	12
Aroclor-1260	340	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	86	51-152

Field ID:	QTP-PP-1@8'	Prepared:	11/10/07
Type:	SAMPLE	Analyzed:	11/12/07
Lab ID:	199052-004	Cleanup Method:	EPA 3665A
Batch#:	131568		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	87	12
Aroclor-1260	73	12

Surrogate	%REC	Limits
TCMX	94	66-140
Decachlorobiphenyl	81	51-152



### Polychlorinated Biphenyls (PCBs)

Lab #:	199052	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Sampled:	11/07/07
Basis:	as received	Received:	11/07/07

Field ID:	QTP CL#3-3@3'	Prepared:	11/10/07
Type:	SAMPLE	Analyzed:	11/12/07
Lab ID:	199052-005	Cleanup Method:	EPA 3665A
Batch#:	131568		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	110	51-152

Field ID:	QTP CL#3-3@5'	Prepared:	11/10/07
Type:	SAMPLE	Analyzed:	11/12/07
Lab ID:	199052-006	Cleanup Method:	EPA 3665A
Batch#:	131568		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	106	51-152

### Polychlorinated Biphenyls (PCBs)

Lab #:	199052	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Sampled:	11/07/07
Basis:	as received	Received:	11/07/07

Field ID:	QTP OS-1@3'	Prepared:	11/10/07
Type:	SAMPLE	Analyzed:	11/13/07
Lab ID:	199052-007	Cleanup Method:	EPA 3665A
Batch#:	131568		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	78	51-152

Field ID:	QTP OS-1@5'	Prepared:	11/12/07
Type:	SAMPLE	Analyzed:	11/13/07
Lab ID:	199052-008	Cleanup Method:	EPA 3665A
Batch#:	131599		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	59	12
Aroclor-1260	67	12

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	92	51-152

### Polychlorinated Biphenyls (PCBs)

Lab #:	199052	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Sampled:	11/07/07
Basis:	as received	Received:	11/07/07

Field ID:	QTP OS-1@7'	Prepared:	11/12/07
Type:	SAMPLE	Analyzed:	11/13/07
Lab ID:	199052-009	Cleanup Method:	EPA 3665A
Batch#:	131599		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	25	12
Aroclor-1260	22	12

Surrogate	%REC	Limits
TCMX	131	66-140
Decachlorobiphenyl	130	51-152

Type:	BLANK	Prepared:	11/10/07
Lab ID:	QC414780	Analyzed:	11/11/07
Batch#:	131568	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	108	51-152

Type:	BLANK	Prepared:	11/12/07
Lab ID:	QC414872	Analyzed:	11/12/07
Batch#:	131599	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	123	66-140
Decachlorobiphenyl	107	51-152

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	199052	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC414781	Batch#:	131568
Matrix:	Soil	Prepared:	11/10/07
Units:	ug/Kg	Analyzed:	11/11/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.1	155.3	94	69-142
Aroclor-1260	165.1	145.2	88	69-155

Surrogate	%REC	Limits
TCMX	105	66-140
Decachlorobiphenyl	97	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	199052	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	QTP CL#3-3@3'	Batch#:	131568
MSS Lab ID:	199052-005	Sampled:	11/07/07
Matrix:	Soil	Received:	11/07/07
Units:	ug/Kg	Prepared:	11/10/07
Basis:	as received	Analyzed:	11/13/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC414782

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.871	168.2	149.5	89	62-139
Aroclor-1260	<3.831	168.2	139.9	83	54-143

Surrogate	%REC	Limits
TCMX	88	66-140
Decachlorobiphenyl	75	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC414783

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.3	138.2	83	62-139	7	33
Aroclor-1260	166.3	132.3	80	54-143	5	34

Surrogate	%REC	Limits
TCMX	90	66-140
Decachlorobiphenyl	76	51-152

RPD= Relative Percent Difference

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	199052	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC414876	Batch#:	131599	
Matrix:	Soil	Prepared:	11/12/07	
Units:	ug/Kg	Analyzed:	11/12/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	164.9	143.5	87	69-142
Aroclor-1260	164.9	155.4	94	69-155

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	105	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	199052	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	131599
MSS Lab ID:	199089-004	Sampled:	11/08/07
Matrix:	Soil	Received:	11/08/07
Units:	ug/Kg	Prepared:	11/12/07
Basis:	as received	Analyzed:	11/13/07
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC414877

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<0.9072	166.4	171.1	103	62-139
Aroclor-1260	<2.604	166.4	156.9	94	54-143

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	92	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC414878

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.3	167.3	101	62-139	2	33
Aroclor-1260	166.3	146.4	88	54-143	7	34

Surrogate	%REC	Limits
TCMX	111	66-140
Decachlorobiphenyl	92	51-152

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	199092	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	131533
Units:	ug/Kg	Sampled:	11/08/07
Basis:	as received	Received:	11/08/07
Diln Fac:	1.000	Prepared:	11/09/07

Field ID: QTP CL#3-3@7' Analyzed: 11/10/07  
Type: SAMPLE Cleanup Method: EPA 3665A  
Lab ID: 199092-001

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	28	12
Aroclor-1260	31	12

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	69	51-152

Field ID: QTP CL#3-3@9' Analyzed: 11/10/07  
Type: SAMPLE Cleanup Method: EPA 3665A  
Lab ID: 199092-002

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	49	12
Aroclor-1260	16	12

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	88	51-152

ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	199092	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	131533
Units:	ug/Kg	Sampled:	11/08/07
Basis:	as received	Received:	11/08/07
Diln Fac:	1.000	Prepared:	11/09/07

Field ID: G76B@10' Analyzed: 11/10/07  
Type: SAMPLE Cleanup Method: EPA 3665A  
Lab ID: 199092-003

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	111	66-140
Decachlorobiphenyl	108	51-152

Type: BLANK Analyzed: 11/09/07  
Lab ID: QC414637 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	93	51-152

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	199092	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC414638	Batch#:	131533	
Matrix:	Soil	Prepared:	11/09/07	
Units:	ug/Kg	Analyzed:	11/09/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.6	200.2	120	69-142
Aroclor-1260	166.6	216.2	130	69-155

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	105	51-152

### CASE NARRATIVE

Laboratory number: 199169  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 11/09/07  
Samples Received: 11/09/07

This hardcopy data package contains sample and QC results for six soil samples, requested for the above referenced project on 11/09/07. The samples were received intact.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

High recoveries were observed for Aroclor-1260 in the MS/MSD of QTP-OS-2@3' (lab # 199170-003); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	199169	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/09/07
Units:	ug/Kg	Received:	11/09/07
Basis:	as received	Prepared:	11/13/07
Batch#:	131681		

Field ID:	G77NW@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/14/07
Lab ID:	199169-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	120	12
Aroclor-1260	130	12

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	91	51-152

Field ID:	G78NW@9'	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	11/15/07
Lab ID:	199169-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	41
Aroclor-1221	ND	83
Aroclor-1232	ND	41
Aroclor-1242	ND	41
Aroclor-1248	ND	41
Aroclor-1254	3,400	41
Aroclor-1260	2,100	41

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	109	51-152

Field ID:	G79WN@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/14/07
Lab ID:	199169-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	92	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	199169	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/09/07
Units:	ug/Kg	Received:	11/09/07
Basis:	as received	Prepared:	11/13/07
Batch#:	131681		

Field ID:	G80WN@9.0'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	11/15/07
Lab ID:	199169-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	25
Aroclor-1221	ND	50
Aroclor-1232	ND	25
Aroclor-1242	ND	25
Aroclor-1248	ND	25
Aroclor-1254	1,400	25
Aroclor-1260	1,400	25

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	89	51-152

Field ID:	G81WBOT@10'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	11/15/07
Lab ID:	199169-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	25
Aroclor-1221	ND	49
Aroclor-1232	ND	25
Aroclor-1242	ND	25
Aroclor-1248	ND	25
Aroclor-1254	1,600	25
Aroclor-1260	1,300	25

Surrogate	%REC	Limits
TCMX	120	66-140
Decachlorobiphenyl	110	51-152

Field ID:	G82NBOT@5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/15/07
Lab ID:	199169-006	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	520	12
Aroclor-1248	ND	12
Aroclor-1254	450	12
Aroclor-1260	370	12

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	92	51-152

ND= Not Detected  
RL= Reporting Limit

Polychlorinated Biphenyls (PCBs)		
Lab #:	199169	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	270025	Analysis: EPA 8082
Matrix:	Soil	Sampled: 11/09/07
Units:	ug/Kg	Received: 11/09/07
Basis:	as received	Prepared: 11/13/07
Batch#:	131681	

Type:	BLANK	Analyzed:	11/14/07
Lab ID:	QC415216	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	94	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	199169	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC415217	Batch#:	131681	
Matrix:	Soil	Prepared:	11/13/07	
Units:	ug/Kg	Analyzed:	11/14/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.0	139.0	84	69-142
Aroclor-1260	165.0	143.4	87	69-155

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	107	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	199169	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	QTP-OS-2@3'	Batch#:	131681
MSS Lab ID:	199170-003	Sampled:	11/09/07
Matrix:	Soil	Received:	11/09/07
Units:	ug/Kg	Prepared:	11/13/07
Basis:	as received	Analyzed:	11/15/07
Diln Fac:	2.000		

Type: MS  
Lab ID: QC415218

Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.921	169.1	161.3	95	62-139
Aroclor-1260	641.5	169.1	1,170	313 *	54-143

Surrogate	%REC	Limits
TCMX	123	66-140
Decachlorobiphenyl	103	51-152

Type: MSD  
Lab ID: QC415219

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.3	142.3	86	62-139	10	33
Aroclor-1260	165.3	990.2	211 *	54-143	16	34

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	90	51-152

\*= Value outside of QC limits; see narrative  
RPD= Relative Percent Difference



### CASE NARRATIVE

Laboratory number: 199170  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 11/09/07  
Samples Received: 11/09/07

This hardcopy data package contains sample and QC results for six soil samples, requested for the above referenced project on 11/09/07. The samples were received intact.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

High recoveries were observed for Aroclor-1260 in the MS/MSD of QTP-OS-2@3' (lab # 199170-003); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	199170	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/09/07
Units:	ug/Kg	Received:	11/09/07
Basis:	as received	Prepared:	11/13/07
Batch#:	131681		

Field ID:	QTP-BF#2-2@3'	Diln Fac:	3.000
Type:	SAMPLE	Analyzed:	11/15/07
Lab ID:	199170-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	25
Aroclor-1221	ND	50
Aroclor-1232	ND	25
Aroclor-1242	ND	25
Aroclor-1248	ND	25
Aroclor-1254	1,600	25
Aroclor-1260	1,600	25

Surrogate	%REC	Limits
TCMX	134	66-140
Decachlorobiphenyl	108	51-152

Field ID:	QTP-BF#2-2@5'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/15/07
Lab ID:	199170-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	111	66-140
Decachlorobiphenyl	107	51-152

Field ID:	QTP-OS-2@3'	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/14/07
Lab ID:	199170-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	730	12
Aroclor-1260	640	12

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	86	51-152

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	199170	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/09/07
Units:	ug/Kg	Received:	11/09/07
Basis:	as received	Prepared:	11/13/07
Batch#:	131681		

Field ID: QTP-OS-2@5'      Diln Fac: 1.000  
 Type: SAMPLE      Analyzed: 11/15/07  
 Lab ID: 199170-004      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	32	12
Aroclor-1260	25	12

Surrogate	%REC	Limits
TCMX	94	66-140
Decachlorobiphenyl	90	51-152

Field ID: QTP-SLT-1@3'      Diln Fac: 1.000  
 Type: SAMPLE      Analyzed: 11/15/07  
 Lab ID: 199170-005      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	97	51-152

Field ID: QTP-SLT-1@5'      Diln Fac: 1.000  
 Type: SAMPLE      Analyzed: 11/15/07  
 Lab ID: 199170-006      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	106	51-152

ND= Not Detected  
 RL= Reporting Limit

Polychlorinated Biphenyls (PCBs)		
Lab #:	199170	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	270025	Analysis: EPA 8082
Matrix:	Soil	Sampled: 11/09/07
Units:	ug/Kg	Received: 11/09/07
Basis:	as received	Prepared: 11/13/07
Batch#:	131681	

Type:	BLANK	Analyzed:	11/14/07
Lab ID:	QC415216	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	94	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	199170	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC415217	Batch#:	131681	
Matrix:	Soil	Prepared:	11/13/07	
Units:	ug/Kg	Analyzed:	11/14/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.0	139.0	84	69-142
Aroclor-1260	165.0	143.4	87	69-155

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	107	51-152

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	199170	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Field ID:	QTP-OS-2@3'	Batch#:	131681
MSS Lab ID:	199170-003	Sampled:	11/09/07
Matrix:	Soil	Received:	11/09/07
Units:	ug/Kg	Prepared:	11/13/07
Basis:	as received	Analyzed:	11/15/07
Diln Fac:	2.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC415218

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.921	169.1	161.3	95	62-139
Aroclor-1260	641.5	169.1	1,170	313 *	54-143

Surrogate	%REC	Limits
TCMX	123	66-140
Decachlorobiphenyl	103	51-152

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC415219

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	165.3	142.3	86	62-139	10	33
Aroclor-1260	165.3	990.2	211 *	54-143	16	34

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	90	51-152

\*= Value outside of QC limits; see narrative  
RPD= Relative Percent Difference

#### CASE NARRATIVE

Laboratory number: 199209  
Client: Questa Engineering Corporation  
Project: 270025  
Location: Former Larkspur Treatment Plant  
Request Date: 11/13/07  
Samples Received: 11/13/07

This hardcopy data package contains sample and QC results for three soil samples, requested for the above referenced project on 11/13/07. The samples were received on ice and intact.

**Polychlorinated Biphenyls (PCBs) (EPA 8082):**

Matrix spikes were not reported for this analysis because the parent sample required a dilution that would have diluted out the spikes. No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	199209	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/13/07
Units:	ug/Kg	Received:	11/13/07
Basis:	as received	Prepared:	11/14/07
Diln Fac:	1.000	Analyzed:	11/15/07
Batch#:	131734		

Field ID: G83@10'      Lab ID: 199209-001  
Type: SAMPLE      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	200	12
Aroclor-1260	300	12

Surrogate	%REC	Limits
TCMX	122	66-140
Decachlorobiphenyl	132	51-152

Field ID: G84@11.5'      Lab ID: 199209-002  
Type: SAMPLE      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	121	66-140
Decachlorobiphenyl	117	51-152

ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	199209	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	270025	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/13/07
Units:	ug/Kg	Received:	11/13/07
Basis:	as received	Prepared:	11/14/07
Diln Fac:	1.000	Analyzed:	11/15/07
Batch#:	131734		

Field ID: G85@5'      Lab ID: 199209-003  
Type: SAMPLE      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	200	12
Aroclor-1260	200	12

Surrogate	%REC	Limits
TCMX	116	66-140
Decachlorobiphenyl	113	51-152

Type: BLANK      Cleanup Method: EPA 3665A  
Lab ID: QC415437

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	88	51-152

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)				
Lab #:	199209	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	EPA 3550B	
Project#:	270025	Analysis:	EPA 8082	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC415438	Batch#:	131734	
Matrix:	Soil	Prepared:	11/14/07	
Units:	ug/Kg	Analyzed:	11/15/07	
Basis:	as received			

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.2	133.9	81	69-142
Aroclor-1260	166.2	167.4	101	69-155

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	90	51-152

## CASE NARRATIVE

Laboratory number: 201057  
Client: Questa Engineering Corporation  
Location: Former Larkspur Treatment Plant  
Request Date: 02/07/08  
Samples Received: 02/07/08

This hardcopy data package contains sample and QC results for twenty three soil samples, requested for the above referenced project on 02/07/08. The samples were received intact at ambient temperature.

### Polychlorinated Biphenyls (PCBs) (EPA 8082) Soil:

Low surrogate recoveries were observed for TCMX in QTP-08-08@20" (lab # 201057-002) and QTP-08-18@5' (lab # 201057-007); the corresponding decachlorobiphenyl surrogate recoveries were within limits. No other analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs) (EPA 8082) WET Leachate:

No analytical problems were encountered.

### Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/07/08
Units:	ug/Kg	Received:	02/07/08
Diln Fac:	1.000		

Field ID: QTP-08-08@20"	Batch#: 134648
Type: SAMPLE	Prepared: 02/09/08
Lab ID: 201057-002	Analyzed: 02/11/08
Basis: dry	Cleanup Method: EPA 3665A
Moisture: 13%	

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	490	14
Aroclor-1260	680	14

Surrogate	%REC	Limits
TCMX	48 *	66-140
Decachlorobiphenyl	55	51-150

Field ID: QTP-08-08@42"	Batch#: 134648
Type: SAMPLE	Prepared: 02/09/08
Lab ID: 201057-003	Analyzed: 02/11/08
Basis: dry	Cleanup Method: EPA 3665A
Moisture: 21%	

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	71	66-140
Decachlorobiphenyl	79	51-150

Polychlorinated Biphenyls (PCBs)		
Lab #:	201057	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	STANDARD	Analysis: EPA 8082
Matrix:	Soil	Sampled: 02/07/08
Units:	ug/Kg	Received: 02/07/08
Diln Fac:	1.000	

Field ID:	QTP-08-08 INNER@12"	Batch#:	134648
Type:	SAMPLE	Prepared:	02/09/08
Lab ID:	201057-004	Analyzed:	02/11/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	12%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	390	14
Aroclor-1260	510	14

Surrogate	%REC	Limits
TCMX	72	66-140
Decachlorobiphenyl	74	51-150

Field ID:	QTP-08-18@2.0'	Batch#:	134648
Type:	SAMPLE	Prepared:	02/09/08
Lab ID:	201057-005	Analyzed:	02/11/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	11%		

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	71	66-140
Decachlorobiphenyl	81	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/07/08
Units:	ug/Kg	Received:	02/07/08
Diln Fac:	1.000		

Field ID:	QTP-08-18@3.75'	Batch#:	134648
Type:	SAMPLE	Prepared:	02/09/08
Lab ID:	201057-006	Analyzed:	02/11/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	14%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	76	14
Aroclor-1260	90	14

Surrogate	%REC	Limits
TCMX	71	66-140
Decachlorobiphenyl	77	51-150

Field ID:	QTP-08-18@5'	Batch#:	134648
Type:	SAMPLE	Prepared:	02/09/08
Lab ID:	201057-007	Analyzed:	02/11/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	17%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	65 *	66-140
Decachlorobiphenyl	66	51-150

Polychlorinated Biphenyls (PCBs)		
Lab #:	201057	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	STANDARD	Analysis: EPA 8082
Matrix:	Soil	Sampled: 02/07/08
Units:	ug/Kg	Received: 02/07/08
Diln Fac:	1.000	

Field ID: QTP-08-19@2.0'  
 Type: SAMPLE  
 Lab ID: 201057-008  
 Basis: dry  
 Moisture: 15%

Batch#: 134648  
 Prepared: 02/09/08  
 Analyzed: 02/12/08  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	68	66-140
Decachlorobiphenyl	78	51-150

Field ID: QTP-08-19@3.5'  
 Type: SAMPLE  
 Lab ID: 201057-010  
 Basis: dry  
 Moisture: 12%

Batch#: 134648  
 Prepared: 02/09/08  
 Analyzed: 02/12/08  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	75	66-140
Decachlorobiphenyl	75	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/07/08
Units:	ug/Kg	Received:	02/07/08
Diln Fac:	1.000		

Field ID:	QTP-08-20@2.5'	Batch#:	134648
Type:	SAMPLE	Prepared:	02/09/08
Lab ID:	201057-011	Analyzed:	02/12/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	17%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	73	66-140
Decachlorobiphenyl	79	51-150

Field ID:	QTP-08-20@5.0'	Batch#:	134648
Type:	SAMPLE	Prepared:	02/09/08
Lab ID:	201057-012	Analyzed:	02/12/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	8%		

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	73	66-140
Decachlorobiphenyl	72	51-150



Polychlorinated Biphenyls (PCBs)		
Lab #:	201057	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	STANDARD	Analysis: EPA 8082
Matrix:	Soil	Sampled: 02/07/08
Units:	ug/Kg	Received: 02/07/08
Diln Fac:	1.000	

Field ID:	QTP-08-21@2.5'	Batch#:	134648
Type:	SAMPLE	Prepared:	02/09/08
Lab ID:	201057-013	Analyzed:	02/12/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	17%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	72	66-140
Decachlorobiphenyl	81	51-150

Field ID:	QTP-08-21@5'	Batch#:	134648
Type:	SAMPLE	Prepared:	02/09/08
Lab ID:	201057-014	Analyzed:	02/12/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	16%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	75	66-140
Decachlorobiphenyl	86	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/07/08
Units:	ug/Kg	Received:	02/07/08
Diln Fac:	1.000		

Field ID:	QTP-08-22@2.0'	Batch#:	134776
Type:	SAMPLE	Prepared:	02/13/08
Lab ID:	201057-015	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	18%		

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	29
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	94	66-140
Decachlorobiphenyl	104	51-150

Field ID:	QTP-08-22@4'	Batch#:	134776
Type:	SAMPLE	Prepared:	02/13/08
Lab ID:	201057-016	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	16%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	116	51-150

Polychlorinated Biphenyls (PCBs)		
Lab #:	201057	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	STANDARD	Analysis: EPA 8082
Matrix:	Soil	Sampled: 02/07/08
Units:	ug/Kg	Received: 02/07/08
Diln Fac:	1.000	

Field ID:	QTP-08-23@1.5'	Batch#:	134776
Type:	SAMPLE	Prepared:	02/13/08
Lab ID:	201057-017	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	6%		

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	112	51-150

Field ID:	QTP-08-23@3.5'	Batch#:	134776
Type:	SAMPLE	Prepared:	02/13/08
Lab ID:	201057-018	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	19%		

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	150	15
Aroclor-1260	170	15

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	111	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/07/08
Units:	ug/Kg	Received:	02/07/08
Diln Fac:	1.000		

Field ID:	QTP-08-23@5.5'	Batch#:	134776
Type:	SAMPLE	Prepared:	02/13/08
Lab ID:	201057-019	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	18%		

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	29
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	110	15
Aroclor-1260	130	15

Surrogate	%REC	Limits
TCMX	99	66-140
Decachlorobiphenyl	107	51-150

Field ID:	QTP-08-24@20"	Batch#:	134776
Type:	SAMPLE	Prepared:	02/13/08
Lab ID:	201057-020	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	9%		

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	110	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/07/08
Units:	ug/Kg	Received:	02/07/08
Diln Fac:	1.000		

Field ID:	QTP-08-24@48"	Batch#:	134776
Type:	SAMPLE	Prepared:	02/13/08
Lab ID:	201057-021	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	12%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	120	51-150

Field ID:	QTP-08-25@2.0'	Batch#:	134776
Type:	SAMPLE	Prepared:	02/13/08
Lab ID:	201057-022	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	13%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	64	14
Aroclor-1260	72	14

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	104	51-150

\*= Value outside of QC limits; see narrative  
 ND= Not Detected  
 RL= Reporting Limit  
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### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/07/08
Units:	ug/Kg	Received:	02/07/08
Diln Fac:	1.000		

Field ID: QTP-08-26@8"  
 Type: SAMPLE  
 Lab ID: 201057-023  
 Basis: dry  
 Moisture: 11%

Batch#: 134776  
 Prepared: 02/13/08  
 Analyzed: 02/13/08  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	14	13
Aroclor-1260	29	13

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	114	51-150

Type: BLANK  
 Lab ID: QC427579  
 Basis: as received  
 Batch#: 134648

Prepared: 02/09/08  
 Analyzed: 02/11/08  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	75	66-140
Decachlorobiphenyl	82	51-150

\*= Value outside of QC limits; see narrative  
 ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/07/08
Units:	ug/Kg	Received:	02/07/08
Diln Fac:	1.000		

Type:	BLANK	Prepared:	02/13/08
Lab ID:	QC428079	Analyzed:	02/13/08
Basis:	as received	Cleanup Method:	EPA 3665A
Batch#:	134776		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	122	66-140
Decachlorobiphenyl	128	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC427580	Batch#:	134648
Matrix:	Soil	Prepared:	02/09/08
Units:	ug/Kg	Analyzed:	02/11/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	331.2	220.4	67	67-122

Surrogate	%REC	Limits
TCMX	78	66-140
Decachlorobiphenyl	81	51-150



## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428080	Batch#:	134776
Matrix:	Soil	Prepared:	02/13/08
Units:	ug/Kg	Analyzed:	02/13/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	333.0	287.1	86	67-122

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	113	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QTP-08-03@3'	Batch#:	134776
MSS Lab ID:	201094-007	Sampled:	02/08/08
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Basis:	as received	Analyzed:	02/14/08
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A  
Lab ID: QC428081

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<1.357	329.7	291.9	89	67-127

Surrogate	%REC	Limits
TCMX	112	66-140
Decachlorobiphenyl	113	51-150

Type: MSD Cleanup Method: EPA 3665A  
Lab ID: QC428082

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	331.0	310.8	94	67-127	6	29

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	119	51-150

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Received:	02/07/08
Diln Fac:	1.000	Prepared:	02/13/08
Batch#:	134816	Analyzed:	02/14/08
Sampled:	02/07/08		

Field ID:	QTP-08-08@1.0'	Matrix:	WET Leachate
Type:	SAMPLE	Cleanup Method:	EPA 3665A
Lab ID:	201057-001		

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	79	53-128
Decachlorobiphenyl	64	26-120

Field ID:	QTP-08-19@3.0'	Matrix:	WET Leachate
Type:	SAMPLE	Cleanup Method:	EPA 3665A
Lab ID:	201057-009		

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	80	53-128
Decachlorobiphenyl	45	26-120

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Received:	02/07/08
Diln Fac:	1.000	Prepared:	02/13/08
Batch#:	134816	Analyzed:	02/14/08
Sampled:	02/07/08		

Field ID: QTP-08-24@20"  
 Type: SAMPLE  
 Lab ID: 201057-020

Matrix: WET Leachate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	88	53-128
Decachlorobiphenyl	78	26-120

Type: BLANK  
 Lab ID: QC428257

Matrix: Water  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	88	53-128
Decachlorobiphenyl	56	26-120

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Batch#:	134816
Units:	ug/L	Prepared:	02/13/08
Diln Fac:	1.000	Analyzed:	02/14/08

Type: BS Cleanup Method: EPA 3665A  
Lab ID: QC428258

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.125	81	61-123

Surrogate	%REC	Limits
TCMX	85	53-128
Decachlorobiphenyl	80	26-120

Type: BSD Cleanup Method: EPA 3665A  
Lab ID: QC428259

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	8.662	87	61-123	6	23

Surrogate	%REC	Limits
TCMX	90	53-128
Decachlorobiphenyl	67	26-120

RPD= Relative Percent Difference

Moisture			
Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	METHOD
Project#:	STANDARD	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Sampled:	02/07/08
Matrix:	Soil	Received:	02/07/08
Units:	%	Analyzed:	02/12/08
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Batch#
QTP-08-08@20"	201057-002	13	1	134771
QTP-08-08@42"	201057-003	21	1	134771
QTP-08-08 INNER@12"	201057-004	12	1	134771
QTP-08-18@2.0'	201057-005	11	1	134771
QTP-08-18@3.75'	201057-006	14	1	134771
QTP-08-18@5'	201057-007	17	1	134771
QTP-08-19@2.0'	201057-008	15	1	134771
QTP-08-19@3.5'	201057-010	12	1	134771
QTP-08-20@2.5'	201057-011	17	1	134771
QTP-08-20@5.0'	201057-012	8	1	134771
QTP-08-21@2.5'	201057-013	17	1	134771
QTP-08-21@5'	201057-014	16	1	134771
QTP-08-22@2.0'	201057-015	18	1	134771
QTP-08-22@4'	201057-016	16	1	134771
QTP-08-23@1.5'	201057-017	6	1	134771
QTP-08-23@3.5'	201057-018	19	1	134771
QTP-08-23@5.5'	201057-019	18	1	134771
QTP-08-24@20"	201057-020	9	1	134771
QTP-08-24@48"	201057-021	12	1	134771
QTP-08-25@2.0'	201057-022	13	1	134771
QTP-08-26@8"	201057-023	11	1	134772

RL= Reporting Limit

## Batch QC Report

Moisture			
Lab #:	201057	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	METHOD
Project#:	STANDARD	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Type:	SDUP	Diln Fac:	1.000
Matrix:	Soil	Analyzed:	02/12/08

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim	Batch#	Sampled	Received
QTP-08-25@2.0'	201057-022	QC428068	13.24	14.48	1.000	9	15	134771	02/07/08	02/07/08
ZZZZZZZZZZ	201151-011	QC428069	11.31	11.24	1.000	1	15	134772	02/12/08	02/12/08

RL= Reporting Limit

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Field ID: QTP-08-01@3'	Diln Fac: 1.000
Type: SAMPLE	Batch#: 134776
Lab ID: 201094-001	Analyzed: 02/13/08
Basis: dry	Cleanup Method: EPA 3665A
Moisture: 18%	

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	29
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	113	51-150

Field ID: QTP-08-01@4'	Diln Fac: 1.000
Type: SAMPLE	Batch#: 134776
Lab ID: 201094-002	Analyzed: 02/13/08
Basis: dry	Cleanup Method: EPA 3665A
Moisture: 18%	

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	29
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	109	51-150



### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Field ID:	QTP-08-02@6''	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	134776
Lab ID:	201094-003	Analyzed:	02/14/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	12%		

Analyte	Result	RL
Aroclor-1016	ND	19
Aroclor-1221	ND	38
Aroclor-1232	ND	19
Aroclor-1242	ND	19
Aroclor-1248	ND	19
Aroclor-1254	1,200	19
Aroclor-1260	1,100	19

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	78	51-150

Field ID:	QTP-08-02@3.0'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134776
Lab ID:	201094-004	Analyzed:	02/14/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	19%		

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	105	66-140
Decachlorobiphenyl	113	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Field ID:	QTP-08-03@18''	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134776
Lab ID:	201094-005	Analyzed:	02/14/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	15%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	111	66-140
Decachlorobiphenyl	108	51-150

Field ID:	QTP-08-03@3'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134776
Lab ID:	201094-007	Analyzed:	02/14/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	13%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	113	51-150

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Field ID:	QTP-08-12@2.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134776
Lab ID:	201094-008	Analyzed:	02/14/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	12%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	290	14
Aroclor-1260	360	14

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	105	51-150

Field ID:	QTP-08-12@5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134776
Lab ID:	201094-009	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	12%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	127	51-150

Polychlorinated Biphenyls (PCBs)		
Lab #:	201094	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	STANDARD	Analysis: EPA 8082
Matrix:	Soil	Received: 02/08/08
Units:	ug/Kg	Prepared: 02/13/08
Sampled:	02/08/08	

Field ID: QTP-08-13@2.5'  
 Type: SAMPLE  
 Lab ID: 201094-010  
 Basis: dry  
 Moisture: 13%

Diln Fac: 1.000  
 Batch#: 134776  
 Analyzed: 02/13/08  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	240	14
Aroclor-1260	230	14

Surrogate	%REC	Limits
TCMX	80	66-140
Decachlorobiphenyl	87	51-150

Field ID: QTP-08-13@4'  
 Type: SAMPLE  
 Lab ID: 201094-011  
 Basis: dry  
 Moisture: 19%

Diln Fac: 1.000  
 Batch#: 134776  
 Analyzed: 02/13/08  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	260	15
Aroclor-1260	760	15

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	102	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Field ID:	QTP-08-13@5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134776
Lab ID:	201094-012	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	16%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	91	66-140
Decachlorobiphenyl	101	51-150

Field ID:	QTP-08-14@3.5'	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201094-013	Analyzed:	02/14/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	14%		

Analyte	Result	RL
Aroclor-1016	ND	49
Aroclor-1221	ND	97
Aroclor-1232	ND	49
Aroclor-1242	ND	49
Aroclor-1248	ND	49
Aroclor-1254	2,700	49
Aroclor-1260	3,100	49

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	75	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Field ID:	QTP-08-14@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201094-014	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	11%		

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	108	51-150

Field ID:	QTP-08-14@5.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201094-015	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	19%		

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	88	66-140
Decachlorobiphenyl	96	51-150

Polychlorinated Biphenyls (PCBs)		
Lab #:	201094	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	STANDARD	Analysis: EPA 8082
Matrix:	Soil	Received: 02/08/08
Units:	ug/Kg	Prepared: 02/13/08
Sampled:	02/08/08	

Field ID: QTP-08-15@3.5'  
 Type: SAMPLE  
 Lab ID: 201094-016  
 Basis: dry  
 Moisture: 13%

Diln Fac: 2.000  
 Batch#: 134790  
 Analyzed: 02/14/08  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	19
Aroclor-1221	ND	38
Aroclor-1232	ND	19
Aroclor-1242	ND	19
Aroclor-1248	ND	19
Aroclor-1254	1,200	19
Aroclor-1260	1,100	19

Surrogate	%REC	Limits
TCMX	99	66-140
Decachlorobiphenyl	86	51-150

Field ID: QTP-08-15@4.5'  
 Type: SAMPLE  
 Lab ID: 201094-017  
 Basis: dry  
 Moisture: 8%

Diln Fac: 2.000  
 Batch#: 134790  
 Analyzed: 02/13/08  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	18
Aroclor-1221	ND	37
Aroclor-1232	ND	18
Aroclor-1242	ND	18
Aroclor-1248	ND	18
Aroclor-1254	1,100	18
Aroclor-1260	1,100	18

Surrogate	%REC	Limits
TCMX	126	66-140
Decachlorobiphenyl	112	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Field ID:	QTP-08-15@5.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201094-018	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	12%		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	99	51-150

Field ID:	QTP-08-16@1.5'	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201094-019	Analyzed:	02/14/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	11%		

Analyte	Result	RL
Aroclor-1016	ND	19
Aroclor-1221	ND	38
Aroclor-1232	ND	19
Aroclor-1242	ND	19
Aroclor-1248	ND	19
Aroclor-1254	830	19
Aroclor-1260	1,400	19

Surrogate	%REC	Limits
TCMX	94	66-140
Decachlorobiphenyl	77	51-150



### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Field ID:	QTP-08-16@4'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201094-020	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	10%		

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	107	51-150

Field ID:	QTP-08-17@12''	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201094-021	Analyzed:	02/13/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	6%		

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	89	51-150

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Field ID:	QTP-08-17@48''	Diln Fac:	50.00
Type:	SAMPLE	Batch#:	134790
Lab ID:	201094-022	Analyzed:	02/14/08
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	10%		

Analyte	Result	RL
Aroclor-1016	ND	470
Aroclor-1221	ND	940
Aroclor-1232	ND	470
Aroclor-1242	ND	470
Aroclor-1248	ND	470
Aroclor-1254	16,000	470
Aroclor-1260	31,000	470

Surrogate	%REC	Limits
TCMX	DO	66-140
Decachlorobiphenyl	DO	51-150

Type:	BLANK	Batch#:	134776
Lab ID:	QC428079	Analyzed:	02/13/08
Basis:	as received	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	122	66-140
Decachlorobiphenyl	128	51-150

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Sampled:	02/08/08		

Type:	BLANK	Batch#:	134790
Lab ID:	QC428155	Analyzed:	02/13/08
Basis:	as received	Cleanup Method:	EPA 3665A
Diln Fac:	1.000		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	107	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428080	Batch#:	134776
Matrix:	Soil	Prepared:	02/13/08
Units:	ug/Kg	Analyzed:	02/13/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	333.0	287.1	86	67-122

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	113	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QTP-08-03@3'	Batch#:	134776
MSS Lab ID:	201094-007	Sampled:	02/08/08
Matrix:	Soil	Received:	02/08/08
Units:	ug/Kg	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/14/08
Diln Fac:	1.000		

Type: MS Moisture: 13%  
Lab ID: QC428081 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<1.559	379.0	335.5	89	67-127

Surrogate	%REC	Limits
TCMX	112	66-140
Decachlorobiphenyl	113	51-150

Type: MSD Moisture: 13%  
Lab ID: QC428082 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	380.5	357.2	94	67-127	6	29

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	119	51-150

RPD= Relative Percent Difference

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428156	Batch#:	134790
Matrix:	Soil	Prepared:	02/13/08
Units:	ug/Kg	Analyzed:	02/13/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	327.9	287.5	88	67-122

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	105	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QB-08-04@6'	Batch#:	134790
MSS Lab ID:	201123-008	Sampled:	02/11/08
Matrix:	Soil	Received:	02/11/08
Units:	ug/Kg	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/14/08
Diln Fac:	2.000		

Type: MS Moisture: 12%  
Lab ID: QC428157 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<15.64	375.9	364.8	97	67-127

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	86	51-150

Type: MSD Moisture: 12%  
Lab ID: QC428158 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	376.8	401.0	106	67-127	9	29

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	84	51-150

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QTP-08-03@2'	Sampled:	02/08/08
Units:	ug/L	Received:	02/08/08
Diln Fac:	1.000	Prepared:	02/13/08
Batch#:	134816	Analyzed:	02/14/08

Type: SAMPLE Matrix: WET Leachate  
 Lab ID: 201094-006 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	86	53-128
Decachlorobiphenyl	42	26-120

Type: BLANK Matrix: Water  
 Lab ID: QC428257 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	88	53-128
Decachlorobiphenyl	56	26-120

ND= Not Detected  
 RL= Reporting Limit



## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Batch#:	134816
Units:	ug/L	Prepared:	02/13/08
Diln Fac:	1.000	Analyzed:	02/14/08

Type: BS Cleanup Method: EPA 3665A  
Lab ID: QC428258

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.125	81	61-123

Surrogate	%REC	Limits
TCMX	85	53-128
Decachlorobiphenyl	80	26-120

Type: BSD Cleanup Method: EPA 3665A  
Lab ID: QC428259

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	8.662	87	61-123	6	23

Surrogate	%REC	Limits
TCMX	90	53-128
Decachlorobiphenyl	67	26-120

RPD= Relative Percent Difference

Moisture			
Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	METHOD
Project#:	STANDARD	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Sampled:	02/08/08
Matrix:	Soil	Received:	02/08/08
Units:	%	Analyzed:	02/14/08
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Batch#
QTP-08-01@3'	201094-001	18	1	134858
QTP-08-01@4'	201094-002	18	1	134858
QTP-08-02@6' '	201094-003	12	1	134858
QTP-08-02@3.0'	201094-004	19	1	134858
QTP-08-03@18' '	201094-005	15	1	134858
QTP-08-03@3'	201094-007	13	1	134871
QTP-08-12@2.5'	201094-008	12	1	134871
QTP-08-12@5'	201094-009	12	1	134871
QTP-08-13@2.5'	201094-010	13	1	134871
QTP-08-13@4'	201094-011	19	1	134871
QTP-08-13@5'	201094-012	16	1	134871
QTP-08-14@3.5'	201094-013	14	1	134871
QTP-08-14@4.5'	201094-014	11	1	134871
QTP-08-14@5.5'	201094-015	19	1	134871
QTP-08-15@3.5'	201094-016	13	1	134871
QTP-08-15@4.5'	201094-017	8	1	134871
QTP-08-15@5.5'	201094-018	12	1	134871
QTP-08-16@1.5'	201094-019	11	1	134871
QTP-08-16@4'	201094-020	10	1	134871
QTP-08-17@12' '	201094-021	6	1	134871
QTP-08-17@48' '	201094-022	10	1	134871

RL= Reporting Limit

## Batch QC Report

Moisture			
Lab #:	201094	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	METHOD
Project#:	STANDARD	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Type:	SDUP	Received:	02/08/08
Matrix:	Soil	Analyzed:	02/14/08
Units:	%		

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim	Batch#	Sampled
QTP-08-03@1.8'	201094-005	QC428433	15.22	16.05	1.000	5	15	134858	02/08/08
ZZZZZZZZZZ	201062-001	QC428488	16.63	17.95	1.000	8	15	134871	02/07/08

RL= Reporting Limit

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-02@1.0'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-001	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/13/08
Moisture:	10%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	180	13
Aroclor-1260	200	13

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	103	51-150

Field ID:	QB-08-02@6'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-002	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/13/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	100	14
Aroclor-1260	110	14

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	108	51-150

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-02@10'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-003	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/13/08
Moisture:	9%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	360	13
Aroclor-1260	410	13

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	102	51-150

Field ID:	QB-08-02@11.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-004	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/13/08
Moisture:	16%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	760	14
Aroclor-1260	620	14

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	104	51-150

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-02@13'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-006	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/14/08
Moisture:	9%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	88	51-150

Field ID:	QB-08-04@3.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-007	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/14/08
Moisture:	9%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	400	13
Aroclor-1260	430	13

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	78	51-150

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-04@6'	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-008	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/14/08
Moisture:	12%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	19
Aroclor-1221	ND	38
Aroclor-1232	ND	19
Aroclor-1242	ND	19
Aroclor-1248	ND	19
Aroclor-1254	740	19
Aroclor-1260	910	19

Surrogate	%REC	Limits
TCMX	91	66-140
Decachlorobiphenyl	87	51-150

Field ID:	QB-08-04@9'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-009	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/14/08
Moisture:	15%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	69	51-150

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-07@1.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-010	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/14/08
Moisture:	10%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	58	13
Aroclor-1260	72	13

Surrogate	%REC	Limits
TCMX	90	66-140
Decachlorobiphenyl	71	51-150

Field ID:	QB-08-07@3.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134790
Lab ID:	201123-011	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/14/08
Moisture:	16%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	17	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	90	66-140
Decachlorobiphenyl	75	51-150

ND= Not Detected  
 RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-07@6.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-012	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	17%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	81	66-140
Decachlorobiphenyl	86	51-150

Field ID:	QB-08-07@10'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-014	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	23%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	16
Aroclor-1221	ND	31
Aroclor-1232	ND	16
Aroclor-1242	ND	16
Aroclor-1248	ND	16
Aroclor-1254	23	16
Aroclor-1260	ND	16

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	99	51-150

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-07@11.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-015	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	8%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	110	51-150

Field ID:	QB-08-04@12.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-016	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	11%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	106	51-150

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-04@14.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-017	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	6%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	119	51-150

Field ID:	QB-08-04@20'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-018	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	5%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	25
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	94	51-150

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-06@13'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-019	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	12%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	68	14
Aroclor-1260	140	14

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	109	51-150

Field ID:	QB-08-06@10'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-020	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	6%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	330	13
Aroclor-1260	490	13

Surrogate	%REC	Limits
TCMX	127	66-140
Decachlorobiphenyl	123	51-150

ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QB-08-06@7'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-022	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	14%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	220	14
Aroclor-1260	240	14

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	94	51-150

Field ID:	QB-08-06@14'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201123-023	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	10%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	16	13
Aroclor-1260	19	13

Surrogate	%REC	Limits
TCMX	118	66-140
Decachlorobiphenyl	120	51-150

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Type:	BLANK	Batch#:	134790
Lab ID:	QC428155	Prepared:	02/13/08
Basis:	as received	Analyzed:	02/13/08
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	107	51-150

Type:	BLANK	Batch#:	134869
Lab ID:	QC428480	Prepared:	02/14/08
Basis:	as received	Analyzed:	02/15/08
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	115	51-150

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428156	Batch#:	134790
Matrix:	Soil	Prepared:	02/13/08
Units:	ug/Kg	Analyzed:	02/13/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	327.9	287.5	88	67-122

Surrogate	%REC	Limits
TCMX	101	66-140
Decachlorobiphenyl	105	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QB-08-04@6'	Batch#:	134790
MSS Lab ID:	201123-008	Sampled:	02/11/08
Matrix:	Soil	Received:	02/11/08
Units:	ug/Kg	Prepared:	02/13/08
Basis:	dry	Analyzed:	02/14/08
Diln Fac:	2.000		

Type: MS Moisture: 12%  
Lab ID: QC428157 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<15.64	375.9	364.8	97	67-127

Surrogate	%REC	Limits
TCMX	96	66-140
Decachlorobiphenyl	86	51-150

Type: MSD Moisture: 12%  
Lab ID: QC428158 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	376.8	401.0	106	67-127	9	29

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	84	51-150

RPD= Relative Percent Difference



## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428481	Batch#:	134869
Matrix:	Soil	Prepared:	02/14/08
Units:	ug/Kg	Analyzed:	02/15/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	332.6	293.7	88	67-122

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	111	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QTP-08-04@1.5'	Batch#:	134869
MSS Lab ID:	201124-001	Sampled:	02/11/08
Matrix:	Soil	Received:	02/11/08
Units:	ug/Kg	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Diln Fac:	1.000		

Type: MS Moisture: 18%  
Lab ID: QC428482 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<1.673	406.4	349.5	86	67-127

Surrogate	%REC	Limits
TCMX	99	66-140
Decachlorobiphenyl	95	51-150

Type: MSD Moisture: 18%  
Lab ID: QC428483 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	401.4	365.4	91	67-127	6	29

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	99	51-150

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Received:	02/11/08
Diln Fac:	1.000	Prepared:	02/14/08
Batch#:	134875	Analyzed:	02/19/08
Sampled:	02/11/08		

Field ID: QB-08-02@12'  
 Type: SAMPLE  
 Lab ID: 201123-005

Matrix: WET Leachate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	93	53-128
Decachlorobiphenyl	55	26-120

Field ID: QB-08-07@7.5'  
 Type: SAMPLE  
 Lab ID: 201123-013

Matrix: WET Leachate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	88	53-128
Decachlorobiphenyl	59	26-120

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Received:	02/11/08
Diln Fac:	1.000	Prepared:	02/14/08
Batch#:	134875	Analyzed:	02/19/08
Sampled:	02/11/08		

Field ID: QB-08-06@6.5'  
 Type: SAMPLE  
 Lab ID: 201123-021

Matrix: WET Leachate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	89	53-128
Decachlorobiphenyl	85	26-120

Type: BLANK  
 Lab ID: QC428497

Matrix: Water  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	102	53-128
Decachlorobiphenyl	97	26-120

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201123	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Batch#:	134875
Units:	ug/L	Prepared:	02/14/08
Diln Fac:	1.000	Analyzed:	02/19/08

Type: BS Cleanup Method: EPA 3665A  
Lab ID: QC428498

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.252	83	61-123

Surrogate	%REC	Limits
TCMX	103	53-128
Decachlorobiphenyl	101	26-120

Type: BSD Cleanup Method: EPA 3665A  
Lab ID: QC428499

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	9.005	90	61-123	9	23

Surrogate	%REC	Limits
TCMX	100	53-128
Decachlorobiphenyl	56	26-120

RPD= Relative Percent Difference

## CASE NARRATIVE

Laboratory number: 201124  
Client: Questa Engineering Corporation  
Location: Former Larkspurt Treatment Plant  
Request Date: 02/11/08  
Samples Received: 02/11/08

This hardcopy data package contains sample and QC results for twenty one soil samples, requested for the above referenced project on 02/11/08. The samples were received cold and intact.

### Polychlorinated Biphenyls (PCBs) (EPA 8082) Soil:

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs) (EPA 8082) WET Leachate:

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

### Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QTP-08-04@1.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-001	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	18%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	29
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	111	51-150

Field ID:	QTP-08-04@3.0'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-002	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	10%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	15	13

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	109	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QTP-08-04@4.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-003	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	39	14
Aroclor-1260	53	14

Surrogate	%REC	Limits
TCMX	99	66-140
Decachlorobiphenyl	98	51-150

Field ID:	QTP-08-05@1.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-004	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	14%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	230	14
Aroclor-1260	170	14

Surrogate	%REC	Limits
TCMX	122	66-140
Decachlorobiphenyl	115	51-150

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QTP-08-05@2.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-005	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	11%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	109	51-150

Field ID:	QTP-08-06@0.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-006	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/20/08
Moisture:	7%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	100	13
Aroclor-1260	180	13

Surrogate	%REC	Limits
TCMX	105	66-140
Decachlorobiphenyl	98	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QTP-08-06@1.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-007	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	14%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	23	14

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	113	51-150

Field ID:	QTP-08-07@0.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-008	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/20/08
Moisture:	11%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	19	13
Aroclor-1260	25	13

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	106	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QTP-08-07@1.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-009	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/20/08
Moisture:	20%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	38	15
Aroclor-1260	75	15

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	108	51-150

Field ID:	QTP-08-09@1.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134869
Lab ID:	201124-010	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	11%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	108	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QTP-08-09@2.5'	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	134903
Lab ID:	201124-011	Prepared:	02/15/08
Basis:	dry	Analyzed:	02/20/08
Moisture:	5%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	88
Aroclor-1221	ND	180
Aroclor-1232	ND	88
Aroclor-1242	ND	88
Aroclor-1248	ND	88
Aroclor-1254	2,800	88
Aroclor-1260	3,900	88

Surrogate	%REC	Limits
TCMX	DO	66-140
Decachlorobiphenyl	DO	51-150

Field ID:	QTP-08-09@4'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134903
Lab ID:	201124-012	Prepared:	02/15/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	15%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	108	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QTP-08-10@2.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134903
Lab ID:	201124-013	Prepared:	02/15/08
Basis:	dry	Analyzed:	02/20/08
Moisture:	3%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	25
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	12	12

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	106	51-150

Field ID:	QTP-08-10@4.0'	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	134903
Lab ID:	201124-014	Prepared:	02/15/08
Basis:	dry	Analyzed:	02/20/08
Moisture:	7%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	89
Aroclor-1221	ND	180
Aroclor-1232	ND	89
Aroclor-1242	ND	89
Aroclor-1248	ND	89
Aroclor-1254	3,000	89
Aroclor-1260	4,700	89

Surrogate	%REC	Limits
TCMX	DO	66-140
Decachlorobiphenyl	DO	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QTP-08-10@5.0'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134903
Lab ID:	201124-015	Prepared:	02/15/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	108	51-150

Field ID:	QTP-08-11@28''	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134903
Lab ID:	201124-016	Prepared:	02/15/08
Basis:	dry	Analyzed:	02/15/08
Moisture:	6%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	420	13
Aroclor-1260	490	13

Surrogate	%REC	Limits
TCMX	82	66-140
Decachlorobiphenyl	93	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Field ID:	QTP-08-11@3.0'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134903
Lab ID:	201124-017	Prepared:	02/15/08
Basis:	dry	Analyzed:	02/16/08
Moisture:	3%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	25
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	220	12
Aroclor-1260	460	12

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	109	51-150

Field ID:	QTP-08-11@4'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	134903
Lab ID:	201124-018	Prepared:	02/15/08
Basis:	dry	Analyzed:	02/16/08
Moisture:	15%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	80	66-140
Decachlorobiphenyl	99	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/11/08
Units:	ug/Kg	Received:	02/11/08

Type:	BLANK	Batch#:	134869
Lab ID:	QC428480	Prepared:	02/14/08
Basis:	as received	Analyzed:	02/15/08
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	115	51-150

Type:	BLANK	Batch#:	134903
Lab ID:	QC428603	Prepared:	02/15/08
Basis:	as received	Analyzed:	02/15/08
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	105	66-140
Decachlorobiphenyl	128	51-150



## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201124	Location:	Former Larkspurt Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428481	Batch#:	134869
Matrix:	Soil	Prepared:	02/14/08
Units:	ug/Kg	Analyzed:	02/15/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	332.6	293.7	88	67-122

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	111	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201124	Location:	Former Larkspurt Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QTP-08-04@1.5'	Batch#:	134869
MSS Lab ID:	201124-001	Sampled:	02/11/08
Matrix:	Soil	Received:	02/11/08
Units:	ug/Kg	Prepared:	02/14/08
Basis:	dry	Analyzed:	02/15/08
Diln Fac:	1.000		

Type: MS Moisture: 18%  
Lab ID: QC428482 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<1.673	406.4	349.5	86	67-127

Surrogate	%REC	Limits
TCMX	99	66-140
Decachlorobiphenyl	95	51-150

Type: MSD Moisture: 18%  
Lab ID: QC428483 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	401.4	365.4	91	67-127	6	29

Surrogate	%REC	Limits
TCMX	106	66-140
Decachlorobiphenyl	99	51-150

RPD= Relative Percent Difference

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201124	Location:	Former Larkspurt Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428604	Batch#:	134903
Matrix:	Soil	Prepared:	02/15/08
Units:	ug/Kg	Analyzed:	02/15/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	332.6	292.0	88	67-122

Surrogate	%REC	Limits
TCMX	102	66-140
Decachlorobiphenyl	107	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201124	Location:	Former Larkspurt Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	134903
MSS Lab ID:	201119-002	Sampled:	02/11/08
Matrix:	Soil	Received:	02/11/08
Units:	ug/Kg	Prepared:	02/15/08
Basis:	dry	Analyzed:	02/15/08
Diln Fac:	1.000		

Type: MS Moisture: 2%  
Lab ID: QC428605 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<6.616	338.7	298.1	88	67-127

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	106	51-150

Type: MSD Moisture: 2%  
Lab ID: QC428606 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	339.6	292.3	86	67-127	2	29

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	109	51-150

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Received:	02/11/08
Diln Fac:	1.000	Prepared:	02/14/08
Batch#:	134875	Analyzed:	02/19/08
Sampled:	02/11/08		

Field ID: QTP-08-10@2.5'  
 Type: SAMPLE  
 Lab ID: 201124-013

Matrix: WET Leachate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	92	53-128
Decachlorobiphenyl	73	26-120

Field ID: QTP-08-12@28''  
 Type: SAMPLE  
 Lab ID: 201124-019

Matrix: WET Leachate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	104	53-128
Decachlorobiphenyl	80	26-120

Field ID: QTP-08-17@4'  
 Type: SAMPLE  
 Lab ID: 201124-020

Matrix: WET Leachate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	98	53-128
Decachlorobiphenyl	79	26-120

ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201124	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Received:	02/11/08
Diln Fac:	1.000	Prepared:	02/14/08
Batch#:	134875	Analyzed:	02/19/08
Sampled:	02/11/08		

Field ID: QTP-08-21@2.5'      Matrix: WET Leachate  
 Type: SAMPLE      Cleanup Method: EPA 3665A  
 Lab ID: 201124-021

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	86	53-128
Decachlorobiphenyl	80	26-120

Type: BLANK      Matrix: Water  
 Lab ID: QC428497      Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	102	53-128
Decachlorobiphenyl	97	26-120

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201124	Location:	Former Larkspurt Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Batch#:	134875
Units:	ug/L	Prepared:	02/14/08
Diln Fac:	1.000	Analyzed:	02/19/08

Type: BS Cleanup Method: EPA 3665A  
Lab ID: QC428498

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.252	83	61-123

Surrogate	%REC	Limits
TCMX	103	53-128
Decachlorobiphenyl	101	26-120

Type: BSD Cleanup Method: EPA 3665A  
Lab ID: QC428499

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	9.005	90	61-123	9	23

Surrogate	%REC	Limits
TCMX	100	53-128
Decachlorobiphenyl	56	26-120

RPD= Relative Percent Difference

Moisture			
Lab #:	201124	Location:	Former Larkspurt Treatment Plant
Client:	Questa Engineering Corporation	Prep:	METHOD
Project#:	STANDARD	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	134878
Matrix:	Soil	Sampled:	02/11/08
Units:	%	Received:	02/11/08
Diln Fac:	1.000	Analyzed:	02/15/08

Field ID	Lab ID	Result	RL
QTP-08-04@1.5'	201124-001	18	1
QTP-08-04@3.0'	201124-002	10	1
QTP-08-04@4.5'	201124-003	13	1
QTP-08-05@1.5'	201124-004	14	1
QTP-08-05@2.5'	201124-005	11	1
QTP-08-06@0.5'	201124-006	7	1
QTP-08-06@1.5'	201124-007	14	1
QTP-08-07@0.5'	201124-008	11	1
QTP-08-07@1.5'	201124-009	20	1
QTP-08-09@1.5'	201124-010	11	1
QTP-08-09@2.5'	201124-011	5	1
QTP-08-09@4'	201124-012	15	1
QTP-08-10@2.5'	201124-013	3	1
QTP-08-10@4.0'	201124-014	7	1
QTP-08-10@5.0'	201124-015	13	1
QTP-08-11@28''	201124-016	6	1
QTP-08-11@3.0'	201124-017	3	1
QTP-08-11@4'	201124-018	15	1

RL= Reporting Limit



## Batch QC Report

Moisture				
Lab #:	201124	Location:	Former Larkspurt Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	METHOD	
Project#:	STANDARD	Analysis:	ASTM D2216/CLP	
Analyte:	Moisture, Percent	Units:	%	
Field ID:	QTP-08-11@4'	Diln Fac:	1.000	
Type:	SDUP	Batch#:	134878	
MSS Lab ID:	201124-018	Sampled:	02/11/08	
Lab ID:	QC428503	Received:	02/11/08	
Matrix:	Soil	Analyzed:	02/15/08	

MSS Result	Result	RL	RPD	Lim
15.38	16.22	1.000	5	15

## CASE NARRATIVE

Laboratory number: 201125  
Client: Questa Engineering Corporation  
Location: Former Larkspur Treatment Plant  
Request Date: 02/11/08  
Samples Received: 02/11/08

This hardcopy data package contains sample and QC results for three water samples, requested for the above referenced project on 02/11/08. The samples were received cold and intact.

### Polychlorinated Biphenyls (PCBs) (EPA 8082):

Low recovery was observed for Aroclor-1221 in the LCS for batch 134940. This indicates that the filtering samples can remove target analytes. These samples were filtered per the clients request. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No other analytical problems were encountered.

### Dissolved Polychlorinated Biphenyls (PCBs)

Lab #:	201125	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Sampled:	02/11/08
Diln Fac:	1.000	Received:	02/11/08
Batch#:	134940	Prepared:	02/16/08

Field ID:	QB-08-06 GW	Matrix:	Filtrate
Type:	SAMPLE	Analyzed:	02/20/08
Lab ID:	201125-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	112	53-128
Decachlorobiphenyl	53	26-120

Field ID:	QB-08-07 GW	Matrix:	Filtrate
Type:	SAMPLE	Analyzed:	02/20/08
Lab ID:	201125-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	111	53-128
Decachlorobiphenyl	73	26-120

ND= Not Detected  
RL= Reporting Limit

### Dissolved Polychlorinated Biphenyls (PCBs)

Lab #:	201125	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Sampled:	02/11/08
Diln Fac:	1.000	Received:	02/11/08
Batch#:	134940	Prepared:	02/16/08

Field ID:	QB-08-02 GW	Matrix:	Filtrate
Type:	SAMPLE	Analyzed:	02/20/08
Lab ID:	201125-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	111	53-128
Decachlorobiphenyl	70	26-120

Type:	BLANK	Analyzed:	02/19/08
Lab ID:	QC428746	Cleanup Method:	EPA 3665A
Matrix:	Water		

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	94	53-128
Decachlorobiphenyl	60	26-120

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

## Dissolved Polychlorinated Biphenyls (PCBs)

Lab #:	201125	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Batch#:	134940
Units:	ug/L	Prepared:	02/16/08
Diln Fac:	1.000	Analyzed:	02/20/08

Type: BS Cleanup Method: EPA 3665A  
Lab ID: QC428747

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.266	83	61-123

Surrogate	%REC	Limits
TCMX	110	53-128
Decachlorobiphenyl	40	26-120

Type: BSD Cleanup Method: EPA 3665A  
Lab ID: QC428748

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	7.866	79	61-123	5	23

Surrogate	%REC	Limits
TCMX	99	53-128
Decachlorobiphenyl	75	26-120

RPD= Relative Percent Difference

## Batch QC Report

Dissolved Polychlorinated Biphenyls (PCBs)			
Lab #:	201125	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428750	Batch#:	134940
Matrix:	Filtrate	Prepared:	02/16/08
Units:	ug/L	Analyzed:	02/20/08

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.53	3.174	30 *	61-123

Surrogate	%REC	Limits
TCMX	97	53-128
Decachlorobiphenyl	50	26-120

\*= Value outside of QC limits; see narrative

## CASE NARRATIVE

Laboratory number: 201171  
Client: Questa Engineering Corporation  
Location: Former Larkspur Treatment Plant  
Request Date: 02/13/08  
Samples Received: 02/13/08

This hardcopy data package contains sample and QC results for forty seven soil samples, requested for the above referenced project on 02/13/08. The samples were received intact at ambient temperature.

### **Polychlorinated Biphenyls (PCBs) (EPA 8082) Soil:**

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. High surrogate recovery was observed for TCMX in QB-08-05@2' (lab # 201171-034); the corresponding decachlorobiphenyl surrogate recovery was within limits, and no target analytes were detected in the sample. No other analytical problems were encountered.

### **Polychlorinated Biphenyls (PCBs) (EPA 8082) WET Leachate:**

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

### **Moisture (ASTM D2216/CLP):**

No analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-14@2'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-001	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	12%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	540	14
Aroclor-1260	730	14

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	100	51-150

Field ID:	QB-08-14@5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-002	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	12%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	200	14
Aroclor-1260	240	14

Surrogate	%REC	Limits
TCMX	105	66-140
Decachlorobiphenyl	96	51-150



### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-14@8'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-003	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	14%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	430	14
Aroclor-1260	460	14

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	100	51-150

Field ID:	QB-08-14@11'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-004	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	11%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	240	13
Aroclor-1260	290	13

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	92	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-14@13'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-005	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	20%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	111	66-140
Decachlorobiphenyl	113	51-150

Field ID:	QB-08-11@10'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-006	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	11%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	109	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-12@1'	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-007	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/26/08
Moisture:	14%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	48
Aroclor-1221	ND	97
Aroclor-1232	ND	48
Aroclor-1242	ND	48
Aroclor-1248	ND	48
Aroclor-1254	1,800	48
Aroclor-1260	2,500	48

Surrogate	%REC	Limits
TCMX	112	66-140
Decachlorobiphenyl	128	51-150

Field ID:	QB-08-12@3.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-008	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	170	14
Aroclor-1260	400	14

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	102	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-12@6'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-009	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	21%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	460	15
Aroclor-1260	810	15

Surrogate	%REC	Limits
TCMX	113	66-140
Decachlorobiphenyl	110	51-150

Field ID:	QB-08-12@6.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-010	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	19%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	250	15
Aroclor-1260	360	15

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	127	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-12@11'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-011	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	22%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	31
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	200	15
Aroclor-1260	310	15

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	111	51-150

Field ID:	QB-08-12@13'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-012	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	15%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	109	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-13@2'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-013	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	12%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	111	66-140
Decachlorobiphenyl	108	51-150

Field ID:	QB-08-13@3'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-014	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	6%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	112	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-08@3'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-015	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	15%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	330	14
Aroclor-1260	520	14

Surrogate	%REC	Limits
TCMX	116	66-140
Decachlorobiphenyl	109	51-150

Field ID:	QB-08-08@5.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-016	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	14	14

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	113	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-08@8'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-017	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	12%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	105	66-140
Decachlorobiphenyl	103	51-150

Field ID:	QB-08-08@12'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-018	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	108	51-150



### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-08@14'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-019	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	15%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	260	14
Aroclor-1260	420	14

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	115	51-150

Field ID:	QB-08-08@14.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135105
Lab ID:	201171-020	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Moisture:	16%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	120	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-09@3.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-021	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	14%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	390	14
Aroclor-1260	580	14

Surrogate	%REC	Limits
TCMX	123	66-140
Decachlorobiphenyl	102	51-150

Field ID:	QB-08-09@7.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-022	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	11%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	67	13
Aroclor-1260	110	13

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	115	51-150

Polychlorinated Biphenyls (PCBs)		
Lab #:	201171	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	STANDARD	Analysis: EPA 8082
Matrix:	Soil	Sampled: 02/12/08
Units:	ug/Kg	Received: 02/13/08

Field ID:	QB-08-09@8'	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-023	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	16%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	50
Aroclor-1221	ND	99
Aroclor-1232	ND	50
Aroclor-1242	ND	50
Aroclor-1248	ND	50
Aroclor-1254	1,100	50
Aroclor-1260	1,800	50

Surrogate	%REC	Limits
TCMX	115	66-140
Decachlorobiphenyl	128	51-150

Field ID:	QB-08-10@4.5'	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-024	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	10%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	18
Aroclor-1221	ND	37
Aroclor-1232	ND	18
Aroclor-1242	ND	18
Aroclor-1248	ND	18
Aroclor-1254	550	18
Aroclor-1260	920	18

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	109	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-10@7.5'	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-025	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	19
Aroclor-1221	ND	38
Aroclor-1232	ND	19
Aroclor-1242	ND	19
Aroclor-1248	ND	19
Aroclor-1254	440	19
Aroclor-1260	780	19

Surrogate	%REC	Limits
TCMX	120	66-140
Decachlorobiphenyl	131	51-150

Field ID:	QB-08-10@9'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-026	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	12%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	27
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	250	14
Aroclor-1260	520	14

Surrogate	%REC	Limits
TCMX	117	66-140
Decachlorobiphenyl	115	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-10@11.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-027	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	22%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	31
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	220	15
Aroclor-1260	160	15

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	90	51-150

Field ID:	QB-08-10@13'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-028	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	16%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	127	66-140
Decachlorobiphenyl	139	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-11@2'	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-029	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	10%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	19
Aroclor-1221	ND	37
Aroclor-1232	ND	19
Aroclor-1242	ND	19
Aroclor-1248	ND	19
Aroclor-1254	620	19
Aroclor-1260	860	19

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	104	51-150

Field ID:	QB-08-11@4'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-030	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	16%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	128	66-140
Decachlorobiphenyl	118	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-11@5.5'	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-031	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	48
Aroclor-1221	ND	96
Aroclor-1232	ND	48
Aroclor-1242	ND	48
Aroclor-1248	ND	48
Aroclor-1254	1,500	48
Aroclor-1260	2,600	48

Surrogate	%REC	Limits
TCMX	118	66-140
Decachlorobiphenyl	125	51-150

Field ID:	QB-08-11@7.0'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-032	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	17%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	122	66-140
Decachlorobiphenyl	130	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-03@15.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-033	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	6%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	89	66-140
Decachlorobiphenyl	86	51-150

Field ID:	QB-08-05@2'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-034	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	10%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	142 *	66-140
Decachlorobiphenyl	133	51-150



### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-05@5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-035	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/26/08
Moisture:	22%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	31
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	190	15
Aroclor-1260	280	15

Surrogate	%REC	Limits
TCMX	117	66-140
Decachlorobiphenyl	125	51-150

Field ID:	QB-08-05@7.0'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-036	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/26/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	440	14
Aroclor-1260	610	14

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	105	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-05@12'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-037	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	19%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	134	66-140
Decachlorobiphenyl	140	51-150

Field ID:	QB-08-05@13.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-038	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	17%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	123	66-140
Decachlorobiphenyl	126	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-01@2'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-039	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/23/08
Moisture:	9%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	137	66-140
Decachlorobiphenyl	139	51-150

Field ID:	QB-08-01@6'	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	135115
Lab ID:	201171-040	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/26/08
Moisture:	14%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	48
Aroclor-1221	ND	96
Aroclor-1232	ND	48
Aroclor-1242	ND	48
Aroclor-1248	ND	48
Aroclor-1254	2,300	48
Aroclor-1260	3,300	48

Surrogate	%REC	Limits
TCMX	111	66-140
Decachlorobiphenyl	122	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-01@8'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135138
Lab ID:	201171-041	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	15%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	320	14
Aroclor-1260	420	14

Surrogate	%REC	Limits
TCMX	95	66-140
Decachlorobiphenyl	87	51-150

Field ID:	QB-08-01@10'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135138
Lab ID:	201171-042	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	26%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	16
Aroclor-1221	ND	32
Aroclor-1232	ND	16
Aroclor-1242	ND	16
Aroclor-1248	ND	16
Aroclor-1254	890	16
Aroclor-1260	750	16

Surrogate	%REC	Limits
TCMX	88	66-140
Decachlorobiphenyl	72	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-01@12'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135138
Lab ID:	201171-043	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	8%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	19	13
Aroclor-1260	21	13

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	83	51-150

Field ID:	QB-08-03@5.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135138
Lab ID:	201171-044	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	11%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	27
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	94	66-140
Decachlorobiphenyl	75	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-03@8'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135138
Lab ID:	201171-045	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	13%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	280	14
Aroclor-1260	350	14

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	90	51-150

Field ID:	QB-08-03@11.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135138
Lab ID:	201171-046	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/25/08
Moisture:	14%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	28
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	40	14
Aroclor-1260	44	14

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	85	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Field ID:	QB-08-03@14.5'	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	135138
Lab ID:	201171-047	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/26/08
Moisture:	33%	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	18
Aroclor-1221	ND	36
Aroclor-1232	ND	18
Aroclor-1242	ND	18
Aroclor-1248	ND	18
Aroclor-1254	ND	18
Aroclor-1260	ND	18

Surrogate	%REC	Limits
TCMX	103	66-140
Decachlorobiphenyl	100	51-150

Type:	BLANK	Batch#:	135105
Lab ID:	QC429389	Prepared:	02/21/08
Basis:	as received	Analyzed:	02/22/08
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	100	66-140
Decachlorobiphenyl	101	51-150

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	02/12/08
Units:	ug/Kg	Received:	02/13/08

Type:	BLANK	Batch#:	135115
Lab ID:	QC429432	Prepared:	02/22/08
Basis:	as received	Analyzed:	02/23/08
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	123	66-140
Decachlorobiphenyl	115	51-150

Type:	BLANK	Batch#:	135138
Lab ID:	QC429532	Prepared:	02/22/08
Basis:	as received	Analyzed:	02/26/08
Diln Fac:	1.000	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	128	51-150

\*= Value outside of QC limits; see narrative  
 ND= Not Detected  
 RL= Reporting Limit  
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## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC429390	Batch#:	135105
Matrix:	Soil	Prepared:	02/21/08
Units:	ug/Kg	Analyzed:	02/22/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	330.9	305.8	92	67-122

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	100	51-150



# Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QB-08-11@10'	Batch#:	135105
MSS Lab ID:	201171-006	Sampled:	02/12/08
Matrix:	Soil	Received:	02/13/08
Units:	ug/Kg	Prepared:	02/21/08
Basis:	dry	Analyzed:	02/22/08
Diln Fac:	1.000		

Type: MS  
Lab ID: QC429391

Moisture: 11%  
Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<7.664	373.2	364.9	98	67-127

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	106	51-150

Type: MSD  
Lab ID: QC429392

Moisture: 11%  
Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	376.9	349.6	93	67-127	5	29

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	97	51-150

RPD= Relative Percent Difference

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC429433	Batch#:	135115
Matrix:	Soil	Prepared:	02/22/08
Units:	ug/Kg	Analyzed:	02/23/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	332.1	315.3	95	67-122

Surrogate	%REC	Limits
TCMX	117	66-140
Decachlorobiphenyl	114	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QB-08-09@8'	Batch#:	135115
MSS Lab ID:	201171-023	Sampled:	02/12/08
Matrix:	Soil	Received:	02/13/08
Units:	ug/Kg	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/26/08
Diln Fac:	5.000		

Type: MS Moisture: 16%  
Lab ID: QC429434 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<22.34	395.8	354.2	90	67-127

Surrogate	%REC	Limits
TCMX	99	66-140
Decachlorobiphenyl	108	51-150

Type: MSD Moisture: 16%  
Lab ID: QC429435 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	395.9	389.8	98	67-127	10	29

Surrogate	%REC	Limits
TCMX	109	66-140
Decachlorobiphenyl	126	51-150

RPD= Relative Percent Difference

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC429533	Batch#:	135138
Matrix:	Soil	Prepared:	02/22/08
Units:	ug/Kg	Analyzed:	02/25/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	336.6	293.3	87	67-122

Surrogate	%REC	Limits
TCMX	99	66-140
Decachlorobiphenyl	87	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QB-08-01@12'	Batch#:	135138
MSS Lab ID:	201171-043	Sampled:	02/12/08
Matrix:	Soil	Received:	02/13/08
Units:	ug/Kg	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/26/08
Diln Fac:	1.000		

Type: MS Moisture: 8%  
Lab ID: QC429534 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<7.476	361.2	294.4	81	67-127

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	92	51-150

Type: MSD Moisture: 8%  
Lab ID: QC429535 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	360.6	292.2	81	67-127	1	29

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	86	51-150

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	WET Leachate	Sampled:	02/12/08
Units:	ug/L	Received:	02/13/08
Diln Fac:	1.000	Prepared:	02/19/08
Batch#:	134977	Analyzed:	02/21/08

Field ID: QB-08-13@3'  
Type: SAMPLE

Lab ID: 201171-014  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	124	53-128
Decachlorobiphenyl	85	26-120

Field ID: QB-08-08@12'  
Type: SAMPLE

Lab ID: 201171-018  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	121	53-128
Decachlorobiphenyl	71	26-120

Type: BLANK  
Lab ID: QC428885

Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	89	53-128
Decachlorobiphenyl	67	26-120

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	WET Leachate	Batch#:	134977
Units:	ug/L	Prepared:	02/19/08
Diln Fac:	1.000	Analyzed:	02/21/08

Type: BS Cleanup Method: EPA 3665A  
Lab ID: QC428886

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	7.093	71	61-123

Surrogate	%REC	Limits
TCMX	87	53-128
Decachlorobiphenyl	75	26-120

Type: BSD Cleanup Method: EPA 3665A  
Lab ID: QC428887

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	6.149	61	61-123	14	23

Surrogate	%REC	Limits
TCMX	94	53-128
Decachlorobiphenyl	81	26-120

RPD= Relative Percent Difference



Moisture			
Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	METHOD
Project#:	STANDARD	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Sampled:	02/12/08
Matrix:	Soil	Received:	02/13/08
Units:	%	Analyzed:	02/19/08
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Batch#
QB-08-14@2'	201171-001	12	1	134986
QB-08-14@5'	201171-002	12	1	134986
QB-08-14@8'	201171-003	14	1	134986
QB-08-14@11'	201171-004	11	1	134986
QB-08-14@13'	201171-005	20	1	134986
QB-08-11@10'	201171-006	11	1	134986
QB-08-12@1'	201171-007	14	1	134986
QB-08-12@3.5'	201171-008	13	1	134986
QB-08-12@6'	201171-009	21	1	134986
QB-08-12@6.5'	201171-010	19	1	134986
QB-08-12@11'	201171-011	22	1	134986
QB-08-12@13'	201171-012	15	1	134986
QB-08-13@2'	201171-013	12	1	134986
QB-08-13@3'	201171-014	6	1	134986
QB-08-08@3'	201171-015	15	1	134986
QB-08-08@5.5'	201171-016	13	1	134986
QB-08-08@8'	201171-017	12	1	134986
QB-08-08@12'	201171-018	13	1	134986
QB-08-08@14'	201171-019	15	1	134986
QB-08-08@14.5'	201171-020	16	1	134986
QB-08-09@3.5'	201171-021	14	1	134987
QB-08-09@7.5'	201171-022	11	1	134987
QB-08-09@8'	201171-023	16	1	134987
QB-08-10@4.5'	201171-024	10	1	134987
QB-08-10@7.5'	201171-025	13	1	134987
QB-08-10@9'	201171-026	12	1	134987
QB-08-10@11.5'	201171-027	22	1	134987
QB-08-10@13'	201171-028	16	1	134987
QB-08-11@2'	201171-029	10	1	134987
QB-08-11@4'	201171-030	16	1	134987
QB-08-11@5.5'	201171-031	13	1	134987
QB-08-11@7.0'	201171-032	17	1	134987
QB-08-03@15.5'	201171-033	6	1	134987
QB-08-05@2'	201171-034	10	1	134987
QB-08-05@5'	201171-035	22	1	134987
QB-08-05@7.0'	201171-036	13	1	134987
QB-08-05@12'	201171-037	19	1	134987
QB-08-05@13.5'	201171-038	17	1	134987
QB-08-01@2'	201171-039	9	1	134987
QB-08-01@6'	201171-040	14	1	134987
QB-08-01@8'	201171-041	15	1	134988
QB-08-01@10'	201171-042	26	1	134988
QB-08-01@12'	201171-043	8	1	134988
QB-08-03@5.5'	201171-044	11	1	134988
QB-08-03@8'	201171-045	13	1	134988
QB-08-03@11.5'	201171-046	14	1	134988
QB-08-03@14.5'	201171-047	33	1	134988

## Batch QC Report

Moisture			
Lab #:	201171	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	METHOD
Project#:	STANDARD	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Type:	SDUP	Sampled:	02/12/08
Matrix:	Soil	Received:	02/13/08
Units:	%	Analyzed:	02/19/08

Field ID	MSS Lab ID	Lab ID	MSS Result	Result	RL	RPD	Lim	Batch#
QB-08-08@14.5'	201171-020	QC428933	15.97	16.38	1.000	3	15	134986
QB-08-09@3.5'	201171-021	QC428934	14.20	12.27	1.000	15	15	134987
QTP-08-28@6.0'	201174-008	QC428935	17.55	16.91	1.000	4	15	134988

RL= Reporting Limit  
RPD= Relative Percent Difference

## CASE NARRATIVE

Laboratory number: 201174  
Client: Questa Engineering Corporation  
Location: Former Larkspur Treatment Plant  
Request Date: 02/13/08  
Samples Received: 02/13/08

This hardcopy data package contains sample and QC results for eight soil samples, requested for the above referenced project on 02/13/08. The samples were received cold and intact.

### **Polychlorinated Biphenyls (PCBs) (EPA 8082) Soil:**

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

### **Polychlorinated Biphenyls (PCBs) (EPA 8082) WET Leachate:**

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

### **Moisture (ASTM D2216/CLP):**

No analytical problems were encountered.

Polychlorinated Biphenyls (PCBs)		
Lab #:	201174	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	STANDARD	Analysis: EPA 8082
Matrix:	Soil	Received: 02/13/08
Units:	ug/Kg	Prepared: 02/22/08
Batch#:	135138	Analyzed: 02/26/08
Sampled:	02/12/08	

Field ID: QTP-08-27@1.0'  
 Type: SAMPLE  
 Lab ID: 201174-002  
 Basis: dry

Moisture: 8%  
 Diln Fac: 1.000  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	116	66-140
Decachlorobiphenyl	102	51-150

Field ID: QTP-08-27@3.5'  
 Type: SAMPLE  
 Lab ID: 201174-003  
 Basis: dry

Moisture: 16%  
 Diln Fac: 1.000  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	104	66-140
Decachlorobiphenyl	91	51-150

DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201174	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/13/08
Units:	ug/Kg	Prepared:	02/22/08
Batch#:	135138	Analyzed:	02/26/08
Sampled:	02/12/08		

Field ID:	QTP-08-27@5'	Moisture:	17%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	201174-004	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	14
Aroclor-1221	ND	29
Aroclor-1232	ND	14
Aroclor-1242	ND	14
Aroclor-1248	ND	14
Aroclor-1254	ND	14
Aroclor-1260	ND	14

Surrogate	%REC	Limits
TCMX	114	66-140
Decachlorobiphenyl	107	51-150

Field ID:	QTP-08-28@2.5'	Moisture:	7%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	201174-006	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	200	13
Aroclor-1260	350	13

Surrogate	%REC	Limits
TCMX	110	66-140
Decachlorobiphenyl	100	51-150

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

### Polychlorinated Biphenyls (PCBs)

Lab #:	201174	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Soil	Received:	02/13/08
Units:	ug/Kg	Prepared:	02/22/08
Batch#:	135138	Analyzed:	02/26/08
Sampled:	02/12/08		

Field ID:	QTP-08-28@4.5'	Moisture:	18%
Type:	SAMPLE	Diln Fac:	10.00
Lab ID:	201174-007	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	100
Aroclor-1221	ND	200
Aroclor-1232	ND	100
Aroclor-1242	ND	100
Aroclor-1248	ND	100
Aroclor-1254	2,900	100
Aroclor-1260	3,700	100

Surrogate	%REC	Limits
TCMX	DO	66-140
Decachlorobiphenyl	DO	51-150

Field ID:	QTP-08-28@6.0'	Moisture:	18%
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	201174-008	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	29
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	107	66-140
Decachlorobiphenyl	103	51-150

DO= Diluted Out  
ND= Not Detected  
RL= Reporting Limit

Polychlorinated Biphenyls (PCBs)		
Lab #:	201174	Location: Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep: EPA 3550B
Project#:	STANDARD	Analysis: EPA 8082
Matrix:	Soil	Received: 02/13/08
Units:	ug/Kg	Prepared: 02/22/08
Batch#:	135138	Analyzed: 02/26/08
Sampled:	02/12/08	

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC429532	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	108	66-140
Decachlorobiphenyl	128	51-150

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201174	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC429533	Batch#:	135138
Matrix:	Soil	Prepared:	02/22/08
Units:	ug/Kg	Analyzed:	02/25/08
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	336.6	293.3	87	67-122

Surrogate	%REC	Limits
TCMX	99	66-140
Decachlorobiphenyl	87	51-150



## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201174	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	QB-08-01@12'	Batch#:	135138
MSS Lab ID:	201171-043	Sampled:	02/12/08
Matrix:	Soil	Received:	02/13/08
Units:	ug/Kg	Prepared:	02/22/08
Basis:	dry	Analyzed:	02/26/08
Diln Fac:	1.000		

Type: MS Moisture: 8%  
Lab ID: QC429534 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1221	<7.476	361.2	294.4	81	67-127

Surrogate	%REC	Limits
TCMX	98	66-140
Decachlorobiphenyl	92	51-150

Type: MSD Moisture: 8%  
Lab ID: QC429535 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	360.6	292.2	81	67-127	1	29

Surrogate	%REC	Limits
TCMX	97	66-140
Decachlorobiphenyl	86	51-150

RPD= Relative Percent Difference

### Polychlorinated Biphenyls (PCBs)

Lab #:	201174	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	WET Leachate	Sampled:	02/12/08
Units:	ug/L	Received:	02/13/08
Diln Fac:	1.000	Prepared:	02/19/08
Batch#:	134977	Analyzed:	02/21/08

Field ID: QTP-08-06@0.5'  
Type: SAMPLE

Lab ID: 201174-001  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	102	53-128
Decachlorobiphenyl	32	26-120

Field ID: QTP-08-13@3'  
Type: SAMPLE

Lab ID: 201174-005  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	102	53-128
Decachlorobiphenyl	58	26-120

Type: BLANK  
Lab ID: QC428885

Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	89	53-128
Decachlorobiphenyl	67	26-120

ND= Not Detected  
RL= Reporting Limit

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201174	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	WET Leachate	Batch#:	134977
Units:	ug/L	Prepared:	02/19/08
Diln Fac:	1.000	Analyzed:	02/21/08

Type: BS Cleanup Method: EPA 3665A  
Lab ID: QC428886

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	7.093	71	61-123

Surrogate	%REC	Limits
TCMX	87	53-128
Decachlorobiphenyl	75	26-120

Type: BSD Cleanup Method: EPA 3665A  
Lab ID: QC428887

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	6.149	61	61-123	14	23

Surrogate	%REC	Limits
TCMX	94	53-128
Decachlorobiphenyl	81	26-120

RPD= Relative Percent Difference

Moisture			
Lab #:	201174	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	METHOD
Project#:	STANDARD	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Batch#:	134988
Matrix:	Soil	Sampled:	02/12/08
Units:	%	Received:	02/13/08
Diln Fac:	1.000	Analyzed:	02/19/08

Field ID	Lab ID	Result	RL
QTP-08-06@0.5'	201174-001	15	1
QTP-08-27@1.0'	201174-002	8	1
QTP-08-27@3.5'	201174-003	16	1
QTP-08-27@5'	201174-004	17	1
QTP-08-13@3'	201174-005	12	1
QTP-08-28@2.5'	201174-006	7	1
QTP-08-28@4.5'	201174-007	18	1
QTP-08-28@6.0'	201174-008	18	1

RL= Reporting Limit

## Batch QC Report

Moisture				
Lab #:	201174	Location:	Former Larkspur Treatment Plant	
Client:	Questa Engineering Corporation	Prep:	METHOD	
Project#:	STANDARD	Analysis:	ASTM D2216/CLP	
Analyte:	Moisture, Percent	Units:	%	
Field ID:	QTP-08-28@6.0'	Diln Fac:	1.000	
Type:	SDUP	Batch#:	134988	
MSS Lab ID:	201174-008	Sampled:	02/12/08	
Lab ID:	QC428935	Received:	02/13/08	
Matrix:	Soil	Analyzed:	02/19/08	

MSS Result	Result	RL	RPD	Lim
17.55	16.91	1.000	4	15

RL= Reporting Limit

RPD= Relative Percent Difference

## CASE NARRATIVE

Laboratory number: 201175  
Client: Questa Engineering Corporation  
Location: Former Larkspur Treatment Plant  
Request Date: 02/13/08  
Samples Received: 02/13/08

This hardcopy data package contains sample and QC results for six water samples, requested for the above referenced project on 02/13/08. The samples were received on ice and intact.

### Polychlorinated Biphenyls (PCBs) (EPA 8082):

Low recovery was observed for Aroclor-1221 in the LCS for batch 134940. This indicates that the filtering samples can remove target analytes. These samples were filtered per the clients request. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No other analytical problems were encountered.

### Polychlorinated Biphenyls (PCBs)

Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/12/08
Units:	ug/L	Received:	02/13/08
Diln Fac:	1.000	Prepared:	02/16/08
Batch#:	134940	Analyzed:	02/19/08

Field ID: QB-08-01 GW  
Type: SAMPLE

Lab ID: 201175-001  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	75	53-128
Decachlorobiphenyl	91	26-120

Field ID: QB-08-05 GW  
Type: SAMPLE

Lab ID: 201175-002  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	83	53-128
Decachlorobiphenyl	82	26-120

Field ID: QB-08-08 GW  
Type: SAMPLE

Lab ID: 201175-003  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	83	53-128
Decachlorobiphenyl	110	26-120

### Polychlorinated Biphenyls (PCBs)

Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/12/08
Units:	ug/L	Received:	02/13/08
Diln Fac:	1.000	Prepared:	02/16/08
Batch#:	134940	Analyzed:	02/19/08

Field ID: QB-08-10 GW  
Type: SAMPLE

Lab ID: 201175-004  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	85	53-128
Decachlorobiphenyl	109	26-120

Field ID: QB-08-12 GW  
Type: SAMPLE

Lab ID: 201175-005  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	80	53-128
Decachlorobiphenyl	113	26-120

Field ID: QB-08-14 GW  
Type: SAMPLE

Lab ID: 201175-006  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	105	53-128
Decachlorobiphenyl	60	26-120

ND= Not Detected  
RL= Reporting Limit



### Polychlorinated Biphenyls (PCBs)

Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/12/08
Units:	ug/L	Received:	02/13/08
Diln Fac:	1.000	Prepared:	02/16/08
Batch#:	134940	Analyzed:	02/19/08

Type: BLANK  
Lab ID: QC428746

Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	94	53-128
Decachlorobiphenyl	60	26-120

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Batch#:	134940
Units:	ug/L	Prepared:	02/16/08
Diln Fac:	1.000	Analyzed:	02/20/08

Type: BS Cleanup Method: EPA 3665A  
Lab ID: QC428747

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.266	83	61-123

Surrogate	%REC	Limits
TCMX	110	53-128
Decachlorobiphenyl	40	26-120

Type: BSD Cleanup Method: EPA 3665A  
Lab ID: QC428748

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	7.866	79	61-123	5	23

Surrogate	%REC	Limits
TCMX	99	53-128
Decachlorobiphenyl	75	26-120

RPD= Relative Percent Difference

## Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428750	Batch#:	134940
Matrix:	Filter	Prepared:	02/16/08
Units:	ug/Kg	Analyzed:	02/20/08

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.53	3.174	30 *	61-123

Surrogate	%REC	Limits
TCMX	97	53-128
Decachlorobiphenyl	50	26-120

\*= Value outside of QC limits; see narrative

### Dissolved Polychlorinated Biphenyls (PCBs)

Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Received:	02/13/08
Diln Fac:	1.000	Prepared:	02/16/08
Batch#:	134940	Analyzed:	02/19/08
Sampled:	02/12/08		

Field ID: QB-08-01 GW  
 Type: SAMPLE  
 Lab ID: 201175-001

Matrix: Filtrate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	75	53-128
Decachlorobiphenyl	91	26-120

Field ID: QB-08-05 GW  
 Type: SAMPLE  
 Lab ID: 201175-002

Matrix: Filtrate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	83	53-128
Decachlorobiphenyl	82	26-120

Field ID: QB-08-08 GW  
 Type: SAMPLE  
 Lab ID: 201175-003

Matrix: Filtrate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	83	53-128
Decachlorobiphenyl	110	26-120

ND= Not Detected  
 RL= Reporting Limit

### Dissolved Polychlorinated Biphenyls (PCBs)

Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Received:	02/13/08
Diln Fac:	1.000	Prepared:	02/16/08
Batch#:	134940	Analyzed:	02/19/08
Sampled:	02/12/08		

Field ID: QB-08-10 GW  
 Type: SAMPLE  
 Lab ID: 201175-004

Matrix: Filtrate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	85	53-128
Decachlorobiphenyl	109	26-120

Field ID: QB-08-12 GW  
 Type: SAMPLE  
 Lab ID: 201175-005

Matrix: Filtrate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	80	53-128
Decachlorobiphenyl	113	26-120

Field ID: QB-08-14 GW  
 Type: SAMPLE  
 Lab ID: 201175-006

Matrix: Filtrate  
 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	105	53-128
Decachlorobiphenyl	60	26-120

ND= Not Detected  
 RL= Reporting Limit

### Dissolved Polychlorinated Biphenyls (PCBs)

Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Units:	ug/L	Received:	02/13/08
Diln Fac:	1.000	Prepared:	02/16/08
Batch#:	134940	Analyzed:	02/19/08
Sampled:	02/12/08		

Type: BLANK  
Lab ID: QC428746

Matrix: Water  
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	94	53-128
Decachlorobiphenyl	60	26-120

## Batch QC Report

## Dissolved Polychlorinated Biphenyls (PCBs)

Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Matrix:	Water	Batch#:	134940
Units:	ug/L	Prepared:	02/16/08
Diln Fac:	1.000	Analyzed:	02/20/08

Type: BS Cleanup Method: EPA 3665A  
Lab ID: QC428747

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.00	8.266	83	61-123

Surrogate	%REC	Limits
TCMX	110	53-128
Decachlorobiphenyl	40	26-120

Type: BSD Cleanup Method: EPA 3665A  
Lab ID: QC428748

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1221	10.00	7.866	79	61-123	5	23

Surrogate	%REC	Limits
TCMX	99	53-128
Decachlorobiphenyl	75	26-120

RPD= Relative Percent Difference

## Batch QC Report

## Dissolved Polychlorinated Biphenyls (PCBs)

Lab #:	201175	Location:	Former Larkspur Treatment Plant
Client:	Questa Engineering Corporation	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC428750	Batch#:	134940
Matrix:	Filtrate	Prepared:	02/16/08
Units:	ug/L	Analyzed:	02/20/08

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1221	10.53	3.174	30 *	61-123

Surrogate	%REC	Limits
TCMX	97	53-128
Decachlorobiphenyl	50	26-120

\*= Value outside of QC limits; see narrative



## Attachment B

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### 95-percent Upper Confidence Limit Calculations

# General UCL Statistics for Data Sets with Non-Detects

## User Selected Options

From File	WorkSheet_a.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

## PCBs

### General Statistics

Number of Valid Data	333	Number of Detected Data	196
Number of Distinct Detected Data	158	Number of Non-Detect Data	137
		Percent Non-Detects	41.14%

### Raw Statistics

Minimum Detected	0.01
Maximum Detected	53
Mean of Detected	1.565
SD of Detected	5.38
Minimum Non-Detect	0.014
Maximum Non-Detect	0.014

### Log-transformed Statistics

Minimum Detected	-4.605
Maximum Detected	3.97
Mean of Detected	-1.056
SD of Detected	1.695
Minimum Non-Detect	-4.269
Maximum Non-Detect	-4.269

### UCL Statistics

#### Normal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.386
5% Lilliefors Critical Value	0.0633

Data not Normal at 5% Significance Level

#### Lognormal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.0445
5% Lilliefors Critical Value	0.0633

Data appear Lognormal at 5% Significance Level

#### Assuming Normal Distribution

DL/2 Substitution Method	
Mean	0.924
SD	4.194
95% DL/2 (t) UCL	1.303

Maximum Likelihood Estimate(MLE) Method N/A

MLE yields a negative mean

#### Assuming Lognormal Distribution

DL/2 Substitution Method	
Mean	-2.663
SD	2.322
95% H-Stat (DL/2) UCL	0.848

Log ROS Method

Mean in Log Scale -2.676

SD in Log Scale 2.5

Mean in Original Scale 0.926

SD in Original Scale 4.193

95% Percentile Bootstrap UCL 1.329

95% BCA Bootstrap UCL 1.449

#### Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.429
Theta Star	3.647
nu star	168.2

A-D Test Statistic 7.694

5% A-D Critical Value 0.837

K-S Test Statistic 0.837

5% K-S Critical Value 0.069

Data not Gamma Distributed at 5% Significance Level

#### Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	1E-09
Maximum	53
Mean	1.153
Median	0.21
SD	4.189
k star	0.138
Theta star	8.381
Nu star	91.65
AppChi2	70.57
95% Gamma Approximate UCL	1.498
95% Adjusted Gamma UCL	1.499

#### Data Distribution Test with Detected Values Only

Data appear Lognormal at 5% Significance Level

#### Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.926
SD	4.187
SE of Mean	0.23
95% KM (t) UCL	1.305
95% KM (z) UCL	1.304
95% KM (jackknife) UCL	1.305
95% KM (bootstrap t) UCL	1.799
95% KM (BCA) UCL	1.362
95% KM (Percentile Bootstrap) UCL	1.342
95% KM (Chebyshev) UCL	1.928
97.5% KM (Chebyshev) UCL	2.362
99% KM (Chebyshev) UCL	3.215

#### Potential UCLs to Use

97.5% KM (Chebyshev) UCL 2.362

Note: DL/2 is not a recommended method.

## General UCL Statistics for Full Data Sets

### User Selected Options

From File	WorkSheet.wst	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations		2000

### PCBs

#### General Statistics

Number of Valid Observations	131	Number of Distinct Observations	77
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#### Raw Statistics

Minimum	0.01	Maximum of Log Data	-4.605
Maximum	22.4	Maximum of Log Data	3.109
Mean	0.706	Mean of log Data	-2.379
Geometric Mean	0.0927	SD of log Data	2.011
Median	0.067		
SD	2.196		
Std. Error of Mean	0.192		
Coefficient of Variation	3.11		
Skewness	7.818		

#### Log-transformed Statistics

#### Relevant UCL Statistics

##### Normal Distribution Test

Lilliefors Test Statistic	0.376	Lilliefors Test Statistic	0.231
Lilliefors Critical Value	0.0774	Lilliefors Critical Value	0.0774

Data not Normal at 5% Significance Level

##### Lognormal Distribution Test

Data not Lognormal at 5% Significance Level

#### Assuming Normal Distribution

95% Student's-t UCL	1.024	95% H-UCL	1.247
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.495
95% Adjusted-CLT UCL (Chen-1995)	1.162	97.5% Chebyshev (MVUE) UCL	1.852
95% Modified-t UCL (Johnson-1978)	1.046	99% Chebyshev (MVUE) UCL	2.555

#### Assuming Lognormal Distribution

#### Gamma Distribution Test

k star (bias corrected)	0.331	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2.133		
MLE of Mean	0.706		
MLE of Standard Deviation	1.227		
nu star	86.75		
Approximate Chi Square Value (.05)	66.28	Nonparametric Statistics	
Adjusted Level of Significance	0.0482	95% CLT UCL	1.022
Adjusted Chi Square Value	66.08	95% Jackknife UCL	1.024
		95% Standard Bootstrap UCL	1.016
Anderson-Darling Test Statistic	10.23	95% Bootstrap-t UCL	1.387
Anderson-Darling 5% Critical Value	0.86	95% Hall's Bootstrap UCL	2.293
Kolmogorov-Smirnov Test Statistic	0.198	95% Percentile Bootstrap UCL	1.061
Kolmogorov-Smirnov 5% Critical Value	0.088	95% BCA Bootstrap UCL	1.191
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	1.543
		97.5% Chebyshev(Mean, Sd) UCL	1.905
		99% Chebyshev(Mean, Sd) UCL	2.616

#### Assuming Gamma Distribution

95% Approximate Gamma UCL (Use when n >= 40)	0.924		
95% Adjusted Gamma UCL (Use when n < 40)	0.927		

#### Potential UCL to Use

Use 95% Chebyshev (Mean, Sd) UCL	1.543
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Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.